

## TEST REPORT

**Product** : Artificial Intelligence Terminal Computer  
**Trade mark** : N/A  
**Model/Type reference** : PP23TQB  
**Serial Number** : N/A  
**Report Number** : EED32M00052603  
**FCC ID** : 2AWMI-PP23TQB  
**Date of Issue** : Jul.14, 2020  
**Test Standards** : 47 CFR Part 15Subpart C  
**Test result** : PASS

Prepared for:

**Beijing Puppy Robotics Co., Ltd.**  
**Room 103, building 1, Yard 33,**  
**Yanqi Road, Huairou District, Beijing, China**

Prepared by:

**Centre Testing International Group Co., Ltd.**  
**Hongwei Industrial Zone, Bao'an 70 District,**  
**Shenzhen, Guangdong, China**  
**TEL: +86-755-3368 3668**  
**FAX: +86-755-3368 3385**

Compiled by:

*Sunlight Sun*

Sunlight Sun

Reviewed by:

*Jok Yang*

Jok Yang

Approved by:

*Sam Chuang*

Sam Chuang

Date:

Jul.14, 2020

Check No.:3915652268



## 2 Version

Version No.	Date	Description
00	Jul.14, 2020	Original

### 3 Test Summary

Test Item	Test Requirement	Test method	Result
<b>Antenna Requirement</b>	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	ANSI C63.10-2013	PASS
<b>AC Power Line Conducted Emission</b>	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	PASS
<b>Conducted Peak Output Power</b>	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	ANSI C63.10-2013	PASS
<b>6dB Occupied Bandwidth</b>	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	ANSI C63.10-2013	PASS
<b>Power Spectral Density</b>	47 CFR Part 15 Subpart C Section 15.247 (e)	ANSI C63.10-2013	PASS
<b>Band-edge for RF Conducted Emissions</b>	47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
<b>RF Conducted Spurious Emissions</b>	47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
<b>Radiated Spurious Emissions</b>	47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS
<b>Restricted bands around fundamental frequency (Radiated Emission)</b>	47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS

Remark:

Test according to ANSI C63.4-2014 & ANSI C63.10-2013.

The tested sample(s) and the sample information are provided by the client.

## 4 Content

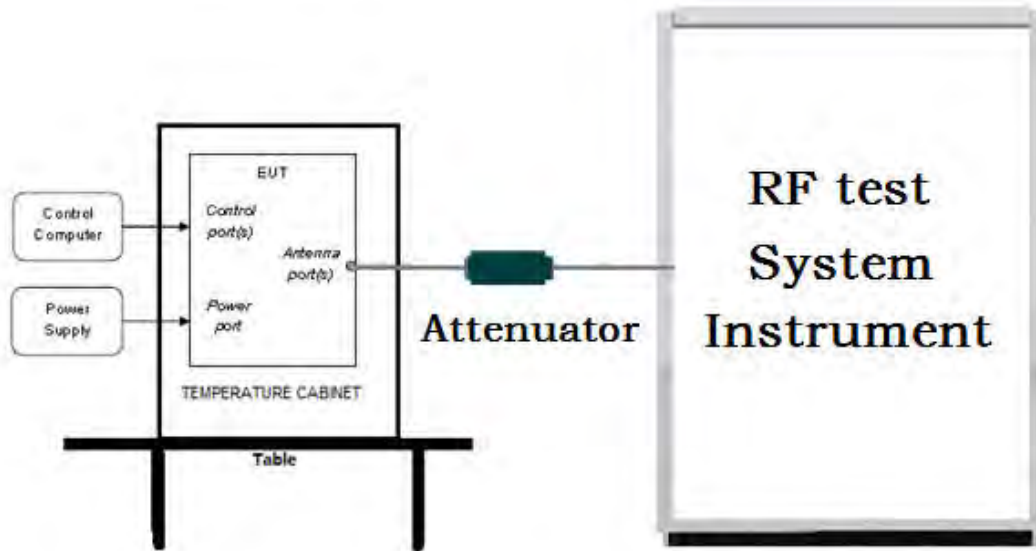
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## 5 Test Requirement

### 5.1 Test setup

#### 5.1.1 For Conducted test setup



#### 5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

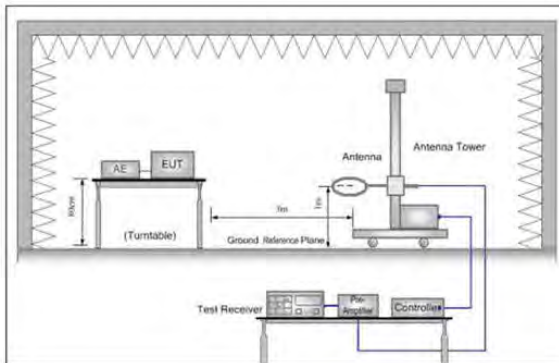


Figure 1. Below 30MHz

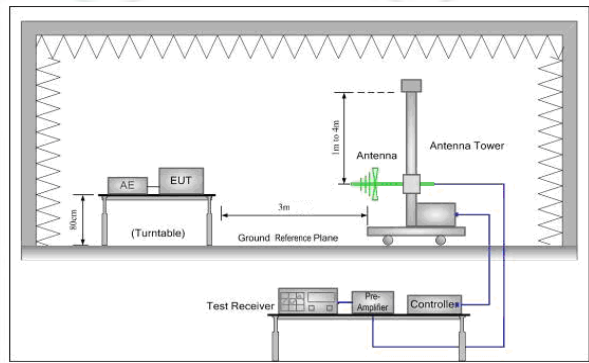


Figure 2. 30MHz to 1GHz

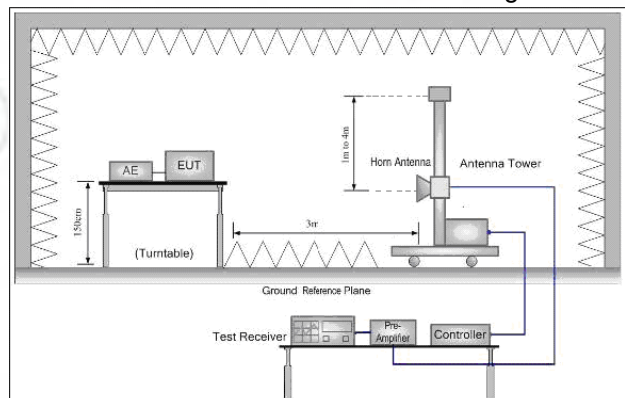
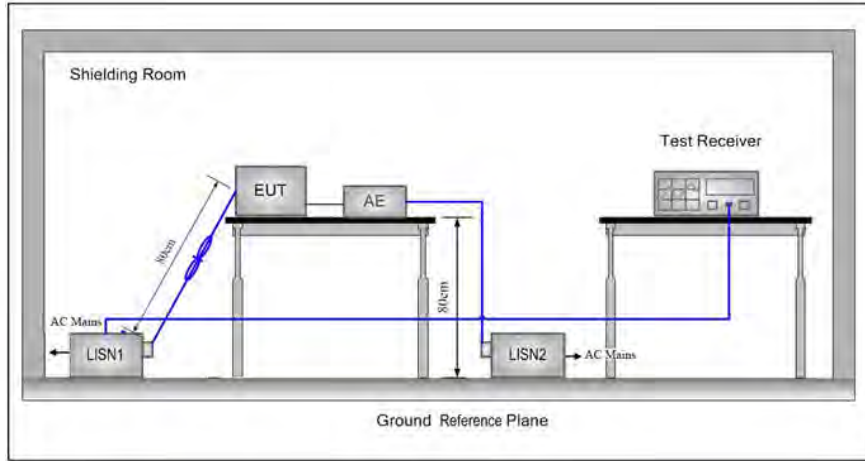


Figure 3. Above 1GHz

**5.1.3 For Conducted Emissions test setup**  
**Conducted Emissions setup**



**5.2 Test Environment**

<b>Operating Environment:</b>	
Temperature:	23 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010mbar

**5.3 Test Condition**

**Test channel:**

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(M)	High(H)
802.11b/g/n(HT20)	2412MHz ~2462 MHz	Channel 1	Channel 6	Channel11
		2412MHz	2437MHz	2462MHz
802.11n(HT40)	2422MHz ~2452 MHz	Channel 3	Channel 6	Channel 9
		2422MHz	2437MHz	2452MHz
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.			

Test mode:

Pre-scan under all rate at lowest channel

<b>Mode</b>	<b>802.11b</b>				X				
<b>Data Rate</b>	<b>1Mbps</b>	<b>2Mbps</b>	<b>5.5Mbps</b>	<b>11Mbps</b>					
Power(dBm)	18.07	18.10	18.13	18.18					
<b>Mode</b>	<b>802.11g</b>								
<b>Data Rate</b>	<b>6Mbps</b>	<b>9Mbps</b>	<b>12Mbps</b>	<b>18Mbps</b>	<b>24Mbps</b>	<b>36Mbps</b>	<b>48Mbps</b>	<b>54Mbps</b>	
Power(dBm)	17.77	17.75	17.73	17.69	17.65	17.63	17.61	17.58	
<b>Mode</b>	<b>802.11n (HT20)</b>								
<b>Data Rate</b>	<b>6.5Mbps</b>	<b>13Mbps</b>	<b>19.5Mbps</b>	<b>26Mbps</b>	<b>39Mbps</b>	<b>52Mbps</b>	<b>58.5Mbps</b>	<b>65Mbps</b>	
Power(dBm)	16.54	16.51	16.49	16.47	16.43	16.41	16.38	16.35	
<b>Mode</b>	<b>802.11n (HT40)</b>								
<b>Data Rate</b>	<b>13.5Mbps</b>	<b>27Mbps</b>	<b>40.5Mbps</b>	<b>54Mbps</b>	<b>81Mbps</b>	<b>108Mbps</b>	<b>121.5Mbps</b>	<b>135Mbps</b>	
Power(dBm)	15.25	15.23	15.21	15.19	15.17	15.14	15.10	15.07	

Through Pre-scan, 11Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).



## 6 General Information

### 6.1 Client Information

Applicant:	Beijing Puppy Robotics Co., Ltd.
Address of Applicant:	Room 103, building 1, Yard 33, Yanqi Road, Huairou District, Beijing, China
Manufacturer:	Beijing Puppy Robotics Co., Ltd.
Address of Manufacturer:	Room 103, building 1, Yard 33, Yanqi Road, Huairou District, Beijing, China
Factory:	Zhang zhou Wanlida Technology Co., Ltd.
Address of Factory:	Wanlida Industrial Zone, Jingcheng Town, Nanjing, Zhangzhou, Fujian, China

### 6.2 General Description of EUT

Product Name:	Artificial Intelligence Terminal Computer	
Model No.(EUT):	PP23TQB	
Trade Mark:	N/A	
EUT Supports Radios application:	802.11b/g/n(HT20)(HT40): 2412MHz ~2462 MHz	
Power Supply:	AC Adapter	MODEL:AP065G-19300 INPUT:100-240V~50/60Hz 1.5A Max OUTPUT:19V---3A
	Battery	Model:BT-J003 3LPC5/60/102 Rated Capacity:5000mAh Power Rating:11.55V---5000mAh 57.75Wh
Sample Received Date:	Mar. 19, 2020	
Sample tested Date:	Mar. 19, 2020 to Jun. 23, 2020	

### 6.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz
Type of Modulation:	OFDM,DSSS
Test Power Grade:	Reference Table 1
Test Software of EUT:	QRCT
Antenna Type and Gain:	Type: FPC antenna Gain: 3.5 dBi
Test Voltage:	AC120V/60Hz



Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
Operation Frequency each of channel(802.11n HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency		
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				

Table 1:

<b>SISO</b>				
Mode	Channel	Frequency	Power Setting	
			Chain1	Chain2
b	1	2412	19	16
	6	2437	20	16
	11	2462	20	18
g	1	2412	14	12
	6	2437	14	12
	11	2462	14	12
n20	1	2412	13	11
	6	2437	14	11
	11	2462	14	12
n40	3	2422	11	9
	6	2437	11	9
	9	2452	11	9
<b>MIMO</b>				
Mode	Channel	Frequency	Power Setting	
n20	1	2412	9	
	6	2437	9	
	11	2462	9	

n40	3	2422	7
	6	2437	7
	9	2452	7

## 6.4 Description of Support Units

The EUT has been tested with associated equipment below

Associated equipment name		Manufacture	model	S/N serial number	Supplied by	Certification
AE1	Notebook	DELL	DELL 3490	D245DX2	DELL	CE&FCC

## 6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

## 6.6 Deviation from Standards

None.

## 6.7 Abnormalities from Standard Conditions

None.

## 6.8 Other Information Requested by the Customer

None.

## 6.9 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	$7.9 \times 10^{-8}$
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-18GHz)
3	Radiated Spurious emission test	4.3dB (30MHz-1GHz)
		4.5dB (1GHz-12.75GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%





## 7 Equipment List

RF test system					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	02-17-2020	02-16-2021
Signal Generator	Keysight	N5182B	MY53051549	02-17-2020	02-16-2021
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	07-26-2019	07-25-2020
High-pass filter	Sinoscite	FL3CX03WG18N M12-0398-002	---	---	---
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	---	---
DC Power	Keysight	E3642A	MY56376072	02-17-2020	02-16-2021
PC-1	Lenovo	R4960d	---	---	---
BT&WI-FI Automatic control	R&S	OSP120	101374	02-17-2020	02-16-2021
RF control unit	JS Tonscend	JS0806-2	158060006	02-17-2020	02-16-2021
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	---	---	---

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Receiver	R&S	ESCI	100435	05-20-2019 04-28-2020	05-19-2020 04-27-2021
Temperature/ Humidity Indicator	Defu	TH128	/	06-14-2019 05-29-2020	06-13-2020 05-28-2021
LISN	R&S	ENV216	100098	03-05-2020	03-04-2021
Barometer	changchun	DYM3	1188	06-20-2019 06-11-2020	06-19-2020 06-10-2021

3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05-24-2019	05-23-2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	07-26-2019	07-25-2020
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-25-2018	04-24-2021
Receiver	R&S	ESCI7	100938-003	10-21-2019	10-20-2020
Multi device Controller	matur	NCD/070/107 11112	---	---	---
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	07-26-2019	07-25-2020
Cable line	Fulai(7M)	SF106	5219/6A	---	---
Cable line	Fulai(6M)	SF106	5220/6A	---	---
Cable line	Fulai(3M)	SF106	5216/6A	---	---
Cable line	Fulai(3M)	SF106	5217/6A	---	---

3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-05-2020	03-04-2021
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-25-2018	04-24-2021
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-25-2018	04-24-2021
Horn Antenna	ETS-LINDGREN	3117	00057407	07-10-2018	07-09-2021
Preamplifier	EMCI	EMC184055SE	980596	05-22-2019 05-20-2020	05-21-2020 05-19-2021
Preamplifier	EMCI	EMC001330	980563	05-08-2019 04-22-2020	05-07-2020 04-21-2021
Preamplifier	JS Tonscend	980380	EMC051845 SE	01-09-2020	01-08-2021
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-30-2019 04-27-2020	04-29-2020 04-26-2021
Fully Anechoic Chamber	TDK	FAC-3	---	01-17-2018	01-16-2021
Filter bank	JS Tonscend	JS0806-F	188060094	04-10-2018	04-09-2021
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	---	---
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	---	---
Cable line	Times	EMC104-NMNM-1000	SN160710	---	---
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	---	---
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	---	---
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	---	---
Cable line	Times	HF160-KMKM-3.00M	393493-0001	---	---

## 8 Radio Technical Requirements Specification

### Reference documents for testing:

No.	Identity	Document Title
1	FCC Part15C	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

### Test Results List:

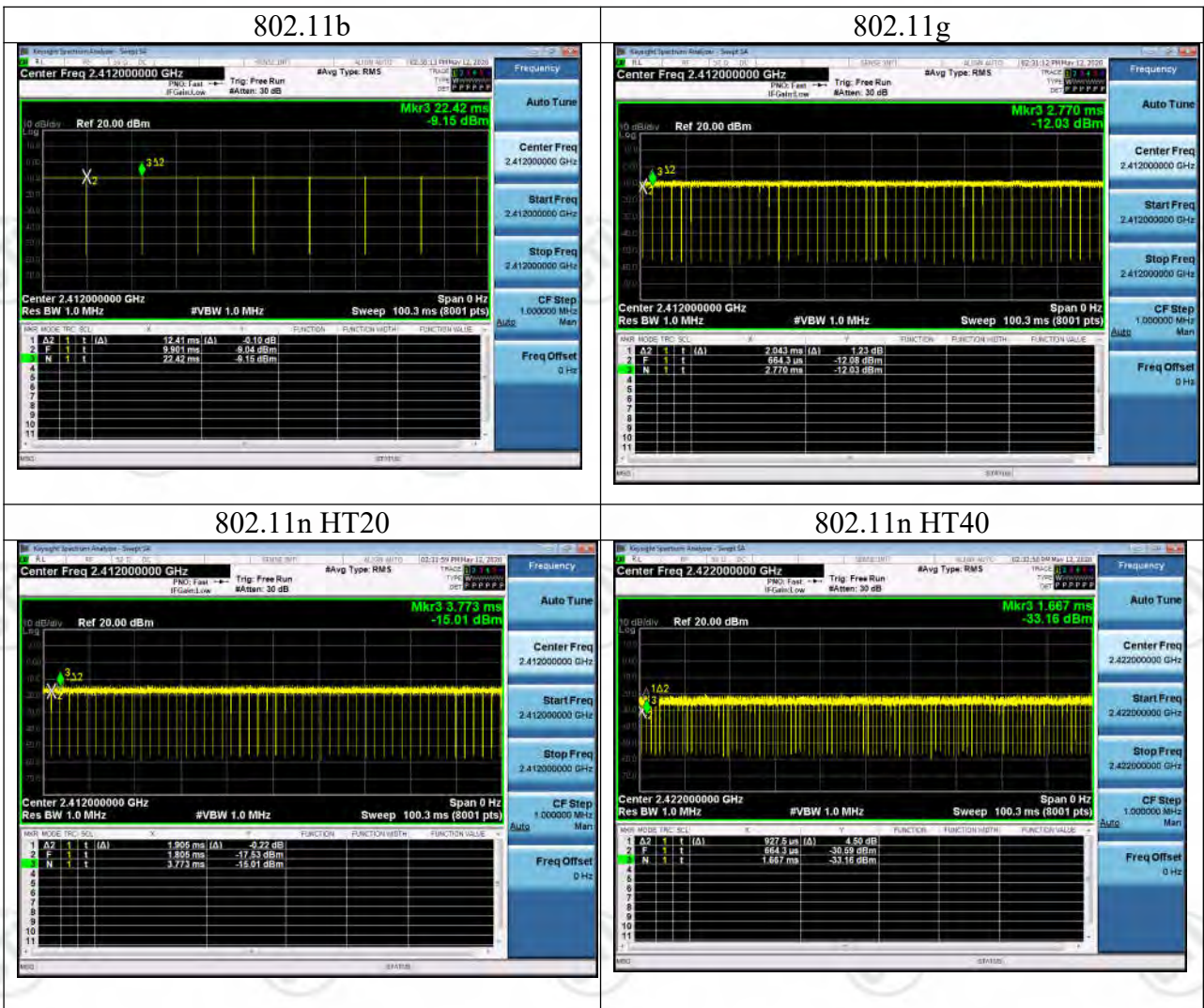
Test Requirement	Test method	Test item	Verdict	Note
Part15C Section 15.247 (b)(3)	ANSI C63.10	Conducted Peak Output Power	PASS	Appendix A)
Part15C Section 15.247 (a)(2)	ANSI C63.10	6dB Occupied Bandwidth	PASS	Appendix B)
Part15C Section 15.247(d)	ANSI C63.10	Band-edge for RF Conducted Emissions	PASS	Appendix C)
Part15C Section 15.247(d)	ANSI C63.10	RF Conducted Spurious Emissions	PASS	Appendix D)
Part15C Section 15.247 (e)	ANSI C63.10	Power Spectral Density	PASS	Appendix E)
Part15C Section 15.203/15.247 (c)	ANSI C63.10	Antenna Requirement	PASS	Appendix F)
Part15C Section 15.207	ANSI C63.10	AC Power Line Conducted Emission	PASS	Appendix G)
Part15C Section 15.205/15.209	ANSI C63.10	Restricted bands around fundamental frequency (Radiated Emission)	PASS	Appendix H)
Part15C Section 15.205/15.209	ANSI C63.10	Radiated Spurious Emissions	PASS	Appendix I)



**DUTY CYCLE**

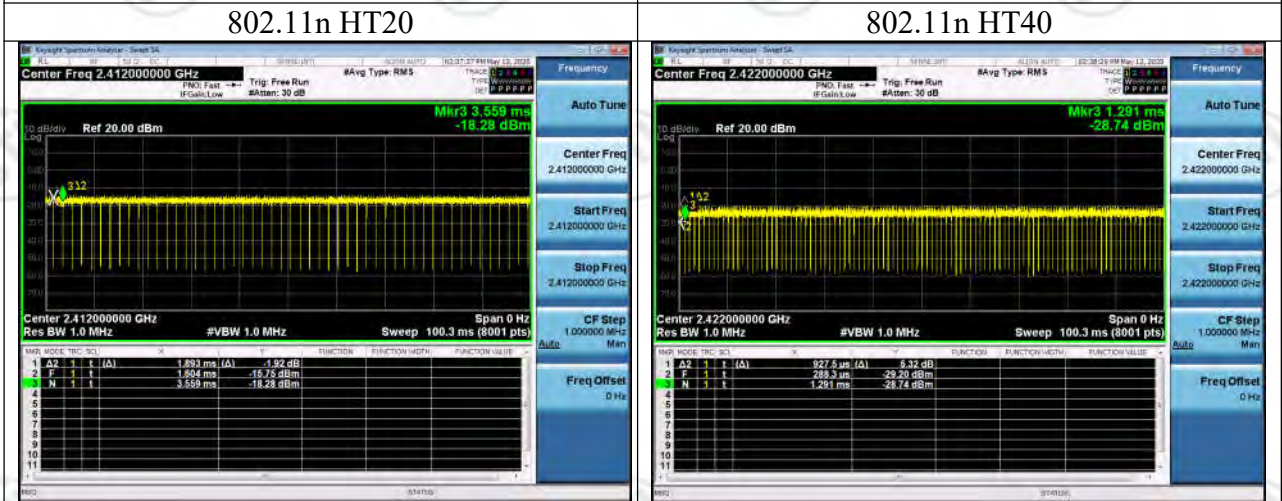
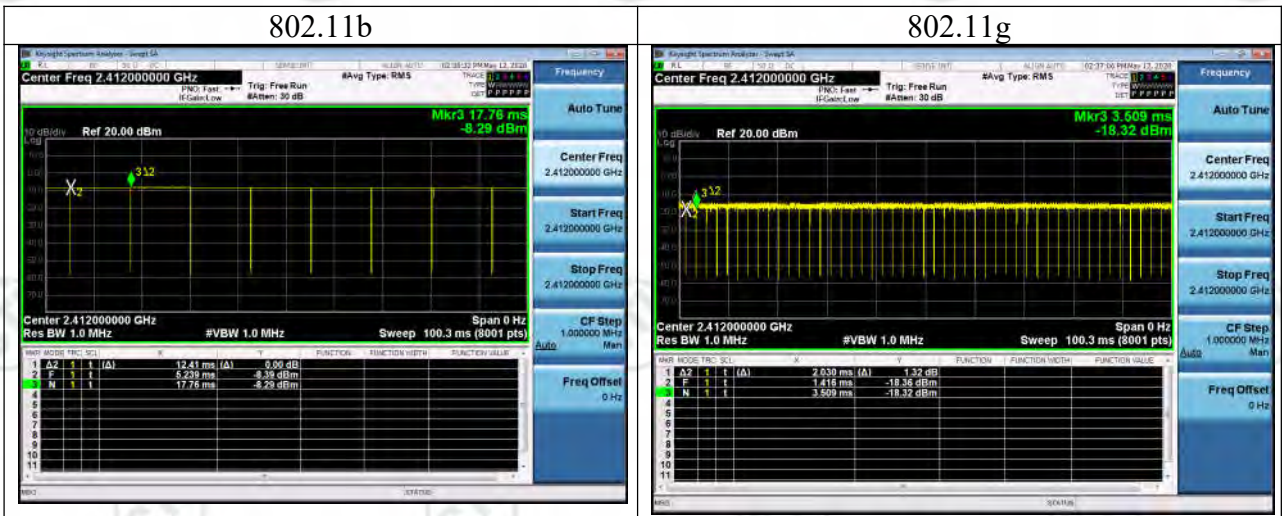
ANT1

Duty Cycle			
Configuration	TX ON(ms)	TX ALL(ms)	Duty Cycle(%)
802.11b	12.41	12.519	99.13%
802.11g	2.043	2.1057	97.02%
802.11n HT20	1.905	1.968	96.80%
802.11n HT40	0.9275	1.0027	92.50%



ANT2

Duty Cycle			
Configuration	TX ON(ms)	TX ALL(ms)	Duty Cycle(%)
802.11b	12.41	12.521	99.11%
802.11g	2.030	2.093	96.99%
802.11n HT20	1.893	1.955	96.83%
802.11n HT40	0.9275	1.0027	92.50%

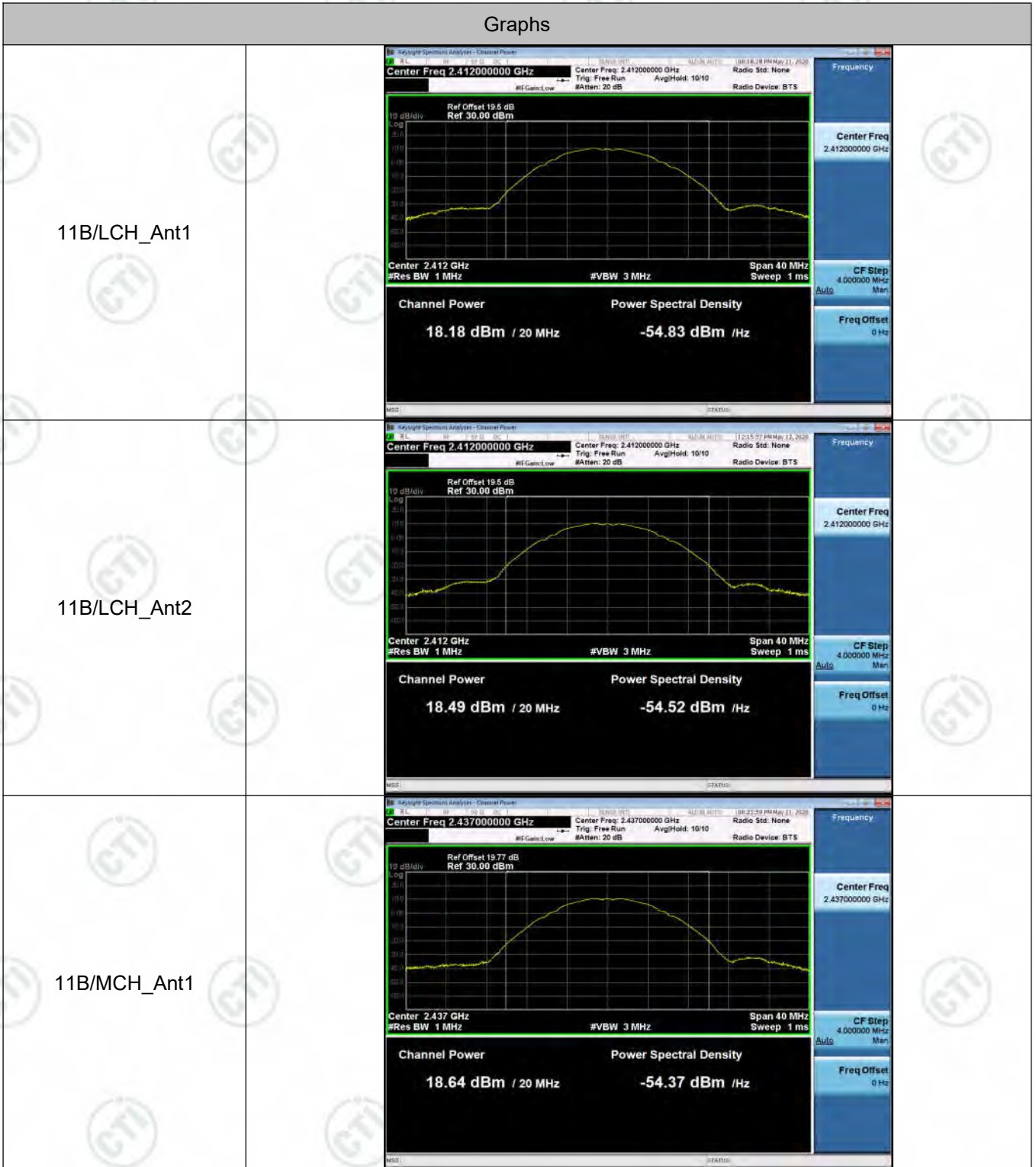






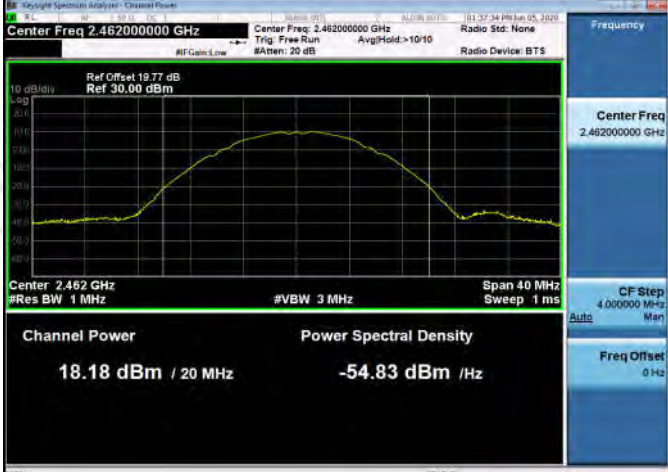
### Appendix A): Conducted Peak Output Power Result Table

Mode	Antenna	Channel	Conducted Peak Output Power [dBm]	Verdict
11B	Ant1	LCH	18.18	PASS
11B	Ant2	LCH	18.49	PASS
11B	Ant1	MCH	18.64	PASS
11B	Ant2	MCH	18.38	PASS
11B	Ant1	HCH	18.35	PASS
11B	Ant2	HCH	18.18	PASS
11G	Ant1	LCH	17.77	PASS
11G	Ant2	LCH	17.81	PASS
11G	Ant1	MCH	17.33	PASS
11G	Ant2	MCH	17.58	PASS
11G	Ant1	HCH	17.05	PASS
11G	Ant2	HCH	16.99	PASS
11N20SISO	Ant1	LCH	16.54	PASS
11N20SISO	Ant2	LCH	16.38	PASS
11N20SISO	Ant1	MCH	16.06	PASS
11N20SISO	Ant2	MCH	16.31	PASS
11N20SISO	Ant1	HCH	16.88	PASS
11N20SISO	Ant2	HCH	16.67	PASS
11N20MIMO	Ant1	LCH	12.83	PASS
11N20MIMO	Ant2	LCH	14.38	PASS
11N20MIMO	Ant1+2	LCH	16.68	PASS
11N20MIMO	Ant1	MCH	13.15	PASS
11N20MIMO	Ant2	MCH	14.12	PASS
11N20MIMO	Ant1+2	MCH	16.67	PASS
11N20MIMO	Ant1	HCH	12.71	PASS
11N20MIMO	Ant2	HCH	13.75	PASS
11N20MIMO	Ant1+2	HCH	16.27	PASS
11N40SISO	Ant1	LCH	15.25	PASS
11N40SISO	Ant2	LCH	15.42	PASS
11N40SISO	Ant1	MCH	15.42	PASS
11N40SISO	Ant2	MCH	15.37	PASS
11N40SISO	Ant1	HCH	15.29	PASS
11N40SISO	Ant2	HCH	15.15	PASS
11N40MIMO	Ant1	LCH	11.74	PASS
11N40MIMO	Ant2	LCH	13.57	PASS
11N40MIMO	Ant1+2	LCH	15.76	PASS
11N40MIMO	Ant1	MCH	11.87	PASS
11N40MIMO	Ant2	MCH	13.35	PASS
11N40MIMO	Ant1+2	MCH	15.68	PASS
11N40MIMO	Ant1	HCH	12.29	PASS
11N40MIMO	Ant2	HCH	13.02	PASS
11N40MIMO	Ant1+2	HCH	15.68	PASS

**Test Graph**




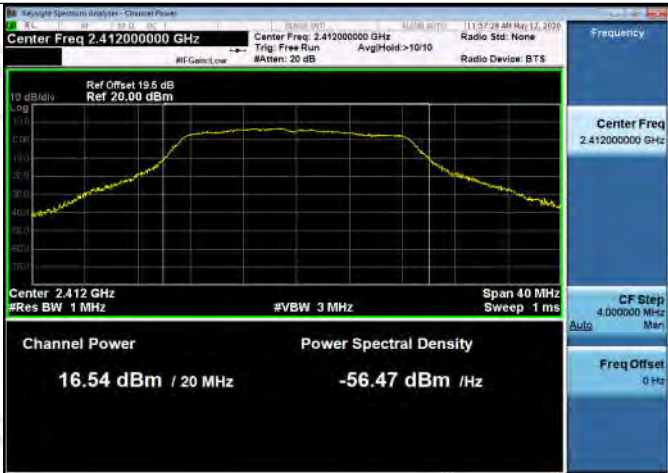


<p>11B/MCH_Ant2</p>	 <p>Keylight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Channel Power: 18.38 dBm / 20 MHz</p> <p>Power Spectral Density: -54.63 dBm /Hz</p>
<p>11B/HCH_Ant1</p>	 <p>Keylight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Channel Power: 18.35 dBm / 20 MHz</p> <p>Power Spectral Density: -54.66 dBm /Hz</p>
<p>11B/HCH_Ant2</p>	 <p>Keylight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Channel Power: 18.18 dBm / 20 MHz</p> <p>Power Spectral Density: -54.83 dBm /Hz</p>

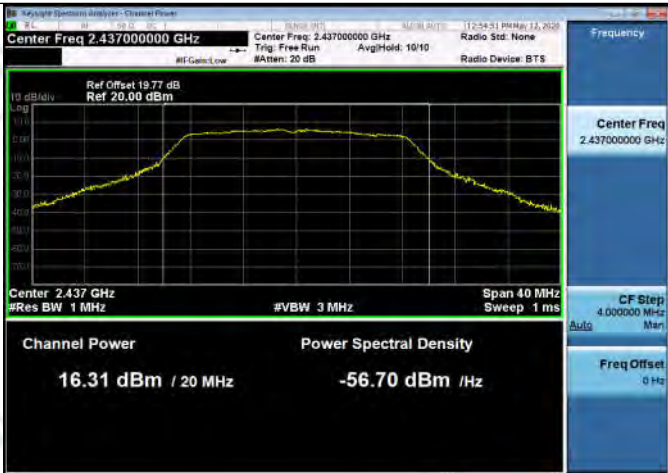
<p>11G/LCH_Ant1</p>	<p>Key parameters for 11G/LCH_Ant1:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.41200000 GHz</li> <li>Channel Power: 17.77 dBm / 20 MHz</li> <li>Power Spectral Density: -55.24 dBm / Hz</li> <li>Res BW: 1 MHz</li> <li>Span: 40 MHz</li> </ul>
<p>11G/LCH_Ant2</p>	<p>Key parameters for 11G/LCH_Ant2:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.41200000 GHz</li> <li>Channel Power: 17.81 dBm / 20 MHz</li> <li>Power Spectral Density: -55.20 dBm / Hz</li> <li>Res BW: 1 MHz</li> <li>Span: 40 MHz</li> </ul>
<p>11G/MCH_Ant1</p>	<p>Key parameters for 11G/MCH_Ant1:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.43700000 GHz</li> <li>Channel Power: 17.33 dBm / 20 MHz</li> <li>Power Spectral Density: -55.68 dBm / Hz</li> <li>Res BW: 1 MHz</li> <li>Span: 40 MHz</li> </ul>

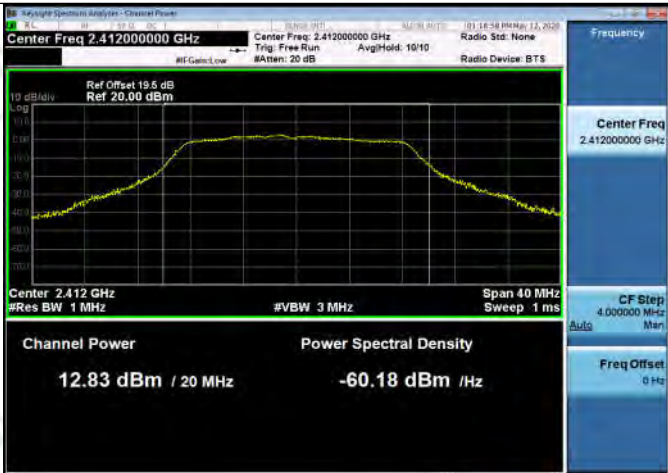


<p>11G/MCH_Ant2</p>	 <p>Key parameters for 11G/MCH_Ant2:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.437000000 GHz</li> <li>Channel Power: 17.58 dBm / 20 MHz</li> <li>Power Spectral Density: -55.43 dBm / Hz</li> <li>Ref Offset: 19.77 dB</li> <li>Ref: 30.00 dBm</li> <li>Span: 40 MHz</li> <li>Res BW: 1 MHz</li> <li>VBW: 3 MHz</li> <li>Sweep: 1 ms</li> </ul>
<p>11G/HCH_Ant1</p>	 <p>Key parameters for 11G/HCH_Ant1:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.462000000 GHz</li> <li>Channel Power: 17.05 dBm / 20 MHz</li> <li>Power Spectral Density: -55.97 dBm / Hz</li> <li>Ref Offset: 19.77 dB</li> <li>Ref: 30.00 dBm</li> <li>Span: 40 MHz</li> <li>Res BW: 1 MHz</li> <li>VBW: 3 MHz</li> <li>Sweep: 1 ms</li> </ul>
<p>11G/HCH_Ant2</p>	 <p>Key parameters for 11G/HCH_Ant2:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.462000000 GHz</li> <li>Channel Power: 16.99 dBm / 20 MHz</li> <li>Power Spectral Density: -56.02 dBm / Hz</li> <li>Ref Offset: 19.77 dB</li> <li>Ref: 30.00 dBm</li> <li>Span: 40 MHz</li> <li>Res BW: 1 MHz</li> <li>VBW: 3 MHz</li> <li>Sweep: 1 ms</li> </ul>

<p>11N20SISO/LCH_Ant1</p>	 <p>Key parameters from screenshot:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.412000000 GHz</li> <li>Channel Power: 16.54 dBm / 20 MHz</li> <li>Power Spectral Density: -56.47 dBm / Hz</li> <li>Ref Offset: 19.5 dB</li> <li>Ref: 20.00 dBm</li> <li>Span: 40 MHz</li> <li>#Res BW: 1 MHz</li> <li>#VBW: 3 MHz</li> <li>Sweep: 1 ms</li> </ul>
<p>11N20SISO/LCH_Ant2</p>	 <p>Key parameters from screenshot:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.412000000 GHz</li> <li>Channel Power: 16.38 dBm / 20 MHz</li> <li>Power Spectral Density: -56.63 dBm / Hz</li> <li>Ref Offset: 19.5 dB</li> <li>Ref: 20.00 dBm</li> <li>Span: 40 MHz</li> <li>#Res BW: 1 MHz</li> <li>#VBW: 3 MHz</li> <li>Sweep: 1 ms</li> </ul>
<p>11N20SISO/MCH_Ant1</p>	 <p>Key parameters from screenshot:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.437000000 GHz</li> <li>Channel Power: 16.06 dBm / 20 MHz</li> <li>Power Spectral Density: -56.95 dBm / Hz</li> <li>Ref Offset: 19.77 dB</li> <li>Ref: 20.00 dBm</li> <li>Span: 40 MHz</li> <li>#Res BW: 1 MHz</li> <li>#VBW: 3 MHz</li> <li>Sweep: 1 ms</li> </ul>



<p>11N20SISO/MCH_Ant2</p>	 <p>Key parameters for 11N20SISO/MCH_Ant2:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.437000000 GHz</li> <li>Channel Power: 16.31 dBm / 20 MHz</li> <li>Power Spectral Density: -56.70 dBm /Hz</li> <li>Ref Offset: 19.77 dB</li> <li>Ref: 20.00 dBm</li> <li>Span: 40 MHz</li> <li>#Res BW: 1 MHz</li> <li>#VBW: 3 MHz</li> <li>Sweep: 1 ms</li> </ul>
<p>11N20SISO/HCH_Ant1</p>	 <p>Key parameters for 11N20SISO/HCH_Ant1:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.462000000 GHz</li> <li>Channel Power: 16.88 dBm / 20 MHz</li> <li>Power Spectral Density: -56.13 dBm /Hz</li> <li>Ref Offset: 19.77 dB</li> <li>Ref: 30.00 dBm</li> <li>Span: 40 MHz</li> <li>#Res BW: 1 MHz</li> <li>#VBW: 3 MHz</li> <li>Sweep: 1 ms</li> </ul>
<p>11N20SISO/HCH_Ant2</p>	 <p>Key parameters for 11N20SISO/HCH_Ant2:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.462000000 GHz</li> <li>Channel Power: 16.67 dBm / 20 MHz</li> <li>Power Spectral Density: -56.34 dBm /Hz</li> <li>Ref Offset: 19.77 dB</li> <li>Ref: 20.00 dBm</li> <li>Span: 40 MHz</li> <li>#Res BW: 1 MHz</li> <li>#VBW: 3 MHz</li> <li>Sweep: 1 ms</li> </ul>

<p>11N20MIMO/LCH_Ant1</p>	 <p>Center Freq 2.41200000 GHz</p> <p>Ref Offset: 19.6 dB Ref 20.00 dBm</p> <p>Center 2.412 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 40 MHz Sweep 1 ms</p> <p>Channel Power: 12.83 dBm / 20 MHz</p> <p>Power Spectral Density: -60.18 dBm / Hz</p>
<p>11N20MIMO/LCH_Ant2</p>	 <p>Center Freq 2.41200000 GHz</p> <p>Ref Offset: 19.6 dB Ref 20.00 dBm</p> <p>Center 2.412 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 40 MHz Sweep 1 ms</p> <p>Channel Power: 14.38 dBm / 20 MHz</p> <p>Power Spectral Density: -58.63 dBm / Hz</p>
<p>11N20MIMO/MCH_Ant1</p>	 <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset: 19.77 dB Ref 20.00 dBm</p> <p>Center 2.437 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 40 MHz Sweep 1 ms</p> <p>Channel Power: 13.15 dBm / 20 MHz</p> <p>Power Spectral Density: -59.86 dBm / Hz</p>




<p>11N20MIMO/MCH_Ant2</p>	 <p>Key parameters from screenshot:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.437000000 GHz</li> <li>Channel Power: 14.12 dBm / 20 MHz</li> <li>Power Spectral Density: -58.89 dBm / Hz</li> <li>Ref Offset: 19.77 dB</li> <li>Ref: 20.00 dBm</li> <li>Span: 40 MHz</li> <li>#Res BW: 1 MHz</li> <li>#VBW: 3 MHz</li> <li>Sweep: 1 ms</li> </ul>
<p>11N20MIMO/HCH_Ant1</p>	 <p>Key parameters from screenshot:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.462000000 GHz</li> <li>Channel Power: 12.71 dBm / 20 MHz</li> <li>Power Spectral Density: -60.30 dBm / Hz</li> <li>Ref Offset: 19.77 dB</li> <li>Ref: 20.00 dBm</li> <li>Span: 40 MHz</li> <li>#Res BW: 1 MHz</li> <li>#VBW: 3 MHz</li> <li>Sweep: 1 ms</li> </ul>
<p>11N20MIMO/HCH_Ant2</p>	 <p>Key parameters from screenshot:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.462000000 GHz</li> <li>Channel Power: 13.75 dBm / 20 MHz</li> <li>Power Spectral Density: -59.26 dBm / Hz</li> <li>Ref Offset: 19.77 dB</li> <li>Ref: 20.00 dBm</li> <li>Span: 40 MHz</li> <li>#Res BW: 1 MHz</li> <li>#VBW: 3 MHz</li> <li>Sweep: 1 ms</li> </ul>

<p>11N40SISO/LCH_Ant1</p>	 <p>Center Freq 2.422000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.422 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Channel Power 15.25 dBm / 40 MHz Power Spectral Density -60.77 dBm / Hz</p>
<p>11N40SISO/LCH_Ant2</p>	 <p>Center Freq 2.422000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.422 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Channel Power 15.42 dBm / 40 MHz Power Spectral Density -60.60 dBm / Hz</p>
<p>11N40SISO/MCH_Ant1</p>	 <p>Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Channel Power 15.42 dBm / 40 MHz Power Spectral Density -60.61 dBm / Hz</p>



<p>11N40SISO/MCH_Ant2</p>	 <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 20.00 dBm</p> <p>Center 2.437 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 80 MHz Sweep 1 ms</p> <p>Channel Power      Power Spectral Density</p> <p>15.37 dBm / 40 MHz      -60.65 dBm / Hz</p>
<p>11N40SISO/HCH_Ant1</p>	 <p>Center Freq 2.452000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 20.00 dBm</p> <p>Center 2.452 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 80 MHz Sweep 1 ms</p> <p>Channel Power      Power Spectral Density</p> <p>15.29 dBm / 40 MHz      -60.73 dBm / Hz</p>
<p>11N40SISO/HCH_Ant2</p>	 <p>Center Freq 2.452000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 20.00 dBm</p> <p>Center 2.452 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 80 MHz Sweep 1 ms</p> <p>Channel Power      Power Spectral Density</p> <p>15.15 dBm / 40 MHz      -60.87 dBm / Hz</p>

<p>11N40MIMO/LCH_Ant1</p>	 <p>Center Freq 2.422000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 20.00 dBm</p> <p>Center 2.422 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 80 MHz Sweep 1 ms</p> <p>Channel Power: 11.74 dBm / 40 MHz</p> <p>Power Spectral Density: -64.28 dBm / Hz</p>
<p>11N40MIMO/LCH_Ant2</p>	 <p>Center Freq 2.422000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 20.00 dBm</p> <p>Center 2.422 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 80 MHz Sweep 1 ms</p> <p>Channel Power: 13.57 dBm / 40 MHz</p> <p>Power Spectral Density: -62.45 dBm / Hz</p>
<p>11N40MIMO/MCH_Ant1</p>	 <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 20.00 dBm</p> <p>Center 2.437 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 80 MHz Sweep 1 ms</p> <p>Channel Power: 11.87 dBm / 40 MHz</p> <p>Power Spectral Density: -64.15 dBm / Hz</p>



<p>11N40MIMO/MCH_Ant2</p>	 <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 20.00 dBm</p> <p>Channel Power: 13.35 dBm / 40 MHz</p> <p>Power Spectral Density: -62.67 dBm / Hz</p>
<p>11N40MIMO/HCH_Ant1</p>	 <p>Center Freq 2.452000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 20.00 dBm</p> <p>Channel Power: 12.29 dBm / 40 MHz</p> <p>Power Spectral Density: -63.74 dBm / Hz</p>
<p>11N40MIMO/HCH_Ant2</p>	 <p>Center Freq 2.452000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 20.00 dBm</p> <p>Channel Power: 13.02 dBm / 40 MHz</p> <p>Power Spectral Density: -63.00 dBm / Hz</p>

## Appendix B): 6dB Occupied Bandwidth

**Result Table**  
**6 dB OBW**

Mode	Antenna	Channel	6dB Bandwidth [MHz]	Verdict
11B	Ant1	LCH	8.073	PASS
11B	Ant2	LCH	8.083	PASS
11B	Ant1	MCH	8.074	PASS
11B	Ant2	MCH	8.082	PASS
11B	Ant1	HCH	9.055	PASS
11B	Ant2	HCH	9.041	PASS
11G	Ant1	LCH	15.09	PASS
11G	Ant2	LCH	15.13	PASS
11G	Ant1	MCH	13.83	PASS
11G	Ant2	MCH	15.10	PASS
11G	Ant1	HCH	15.69	PASS
11G	Ant2	HCH	15.35	PASS
11N20SISO	Ant1	LCH	15.07	PASS
11N20SISO	Ant2	LCH	15.14	PASS
11N20SISO	Ant1	MCH	15.04	PASS
11N20SISO	Ant2	MCH	15.14	PASS
11N20SISO	Ant1	HCH	16.43	PASS
11N20SISO	Ant2	HCH	15.14	PASS
11N20MIMO	Ant1	LCH	15.08	PASS
11N20MIMO	Ant2	LCH	15.95	PASS
11N20MIMO	Ant1	MCH	13.84	PASS
11N20MIMO	Ant2	MCH	15.45	PASS
11N20MIMO	Ant1	HCH	17.32	PASS
11N20MIMO	Ant2	HCH	15.26	PASS
11N40SISO	Ant1	LCH	35.72	PASS
11N40SISO	Ant2	LCH	35.89	PASS
11N40SISO	Ant1	MCH	35.05	PASS
11N40SISO	Ant2	MCH	35.10	PASS
11N40SISO	Ant1	HCH	35.72	PASS
11N40SISO	Ant2	HCH	35.96	PASS
11N40MIMO	Ant1	LCH	35.74	PASS
11N40MIMO	Ant2	LCH	35.52	PASS
11N40MIMO	Ant1	MCH	35.02	PASS
11N40MIMO	Ant2	MCH	35.10	PASS
11N40MIMO	Ant1	HCH	35.41	PASS
11N40MIMO	Ant2	HCH	36.31	PASS

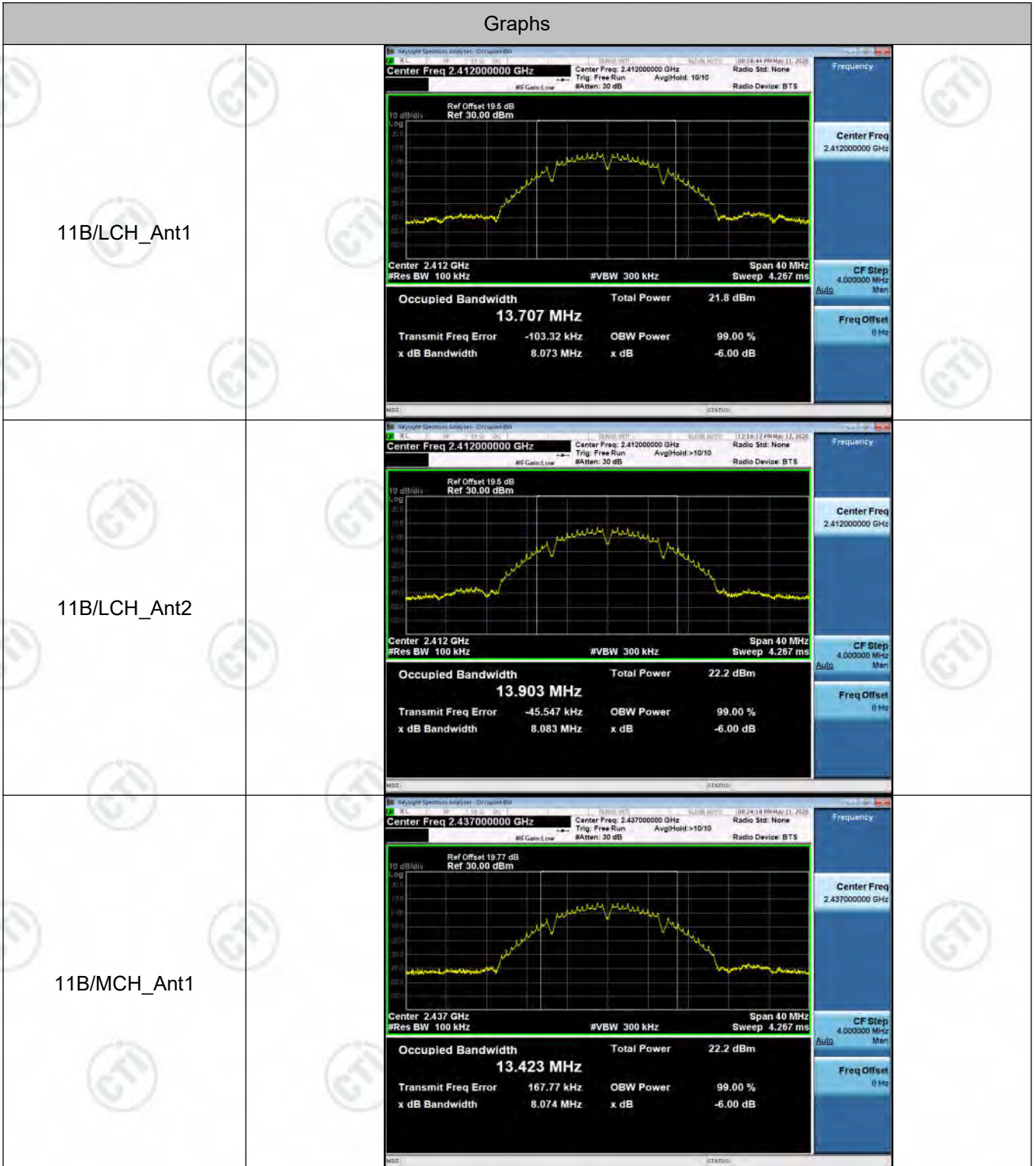


**99% OBW**

Mode	Antenna	Channel	99% OBW [MHz]	Verdict
11B	Ant1	LCH	13.714	PASS
11B	Ant2	LCH	13.903	PASS
11B	Ant1	MCH	13.534	PASS
11B	Ant2	MCH	14.136	PASS
11B	Ant1	HCH	14.310	PASS
11B	Ant2	HCH	14.064	PASS
11G	Ant1	LCH	16.433	PASS
11G	Ant2	LCH	16.422	PASS
11G	Ant1	MCH	16.405	PASS
11G	Ant2	MCH	16.397	PASS
11G	Ant1	HCH	16.651	PASS
11G	Ant2	HCH	16.448	PASS
11N20SISO	Ant1	LCH	17.611	PASS
11N20SISO	Ant2	LCH	17.649	PASS
11N20SISO	Ant1	MCH	17.655	PASS
11N20SISO	Ant2	MCH	17.625	PASS
11N20SISO	Ant1	HCH	17.904	PASS
11N20SISO	Ant2	HCH	17.668	PASS
11N40SISO	Ant1	LCH	36.284	PASS
11N40SISO	Ant2	LCH	36.129	PASS
11N40SISO	Ant1	MCH	35.966	PASS
11N40SISO	Ant2	MCH	35.974	PASS
11N40SISO	Ant1	HCH	36.132	PASS
11N40SISO	Ant2	HCH	36.211	PASS

**6 dB OBW**

**Test Graph**



<p>11B/MCH_Ant2</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth <b>14.136 MHz</b></p> <p>Total Power 22.0 dBm</p> <p>Transmit Freq Error -99.633 kHz</p> <p>x dB Bandwidth 8.082 MHz</p>
<p>11B/HCH_Ant1</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth <b>14.264 MHz</b></p> <p>Total Power 22.2 dBm</p> <p>Transmit Freq Error 141.15 kHz</p> <p>x dB Bandwidth 9.055 MHz</p>
<p>11B/HCH_Ant2</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth <b>14.064 MHz</b></p> <p>Total Power 22.0 dBm</p> <p>Transmit Freq Error 86.252 kHz</p> <p>x dB Bandwidth 9.041 MHz</p>



<p>11G/LCH_Ant1</p>	<p>Center Freq 2.412000000 GHz</p> <p>Ref Offset: 19.5 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40 MHz Sweep 4.267 ms</p> <p>Occupied Bandwidth <b>16.365 MHz</b></p> <p>Total Power 16.5 dBm</p> <p>Transmit Freq Error -28.211 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.09 MHz</p> <p>x dB -6.00 dB</p>
<p>11G/LCH_Ant2</p>	<p>Center Freq 2.412000000 GHz</p> <p>Ref Offset: 19.5 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40 MHz Sweep 4.267 ms</p> <p>Occupied Bandwidth <b>16.442 MHz</b></p> <p>Total Power 16.6 dBm</p> <p>Transmit Freq Error -14.081 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.13 MHz</p> <p>x dB -6.00 dB</p>
<p>11G/MCH_Ant1</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40 MHz Sweep 4.267 ms</p> <p>Occupied Bandwidth <b>16.325 MHz</b></p> <p>Total Power 16.1 dBm</p> <p>Transmit Freq Error 12.248 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 13.83 MHz</p> <p>x dB -6.00 dB</p>

<p>11G/MCH_Ant2</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth <b>16.397 MHz</b></p> <p>Total Power 16.3 dBm</p> <p>Transmit Freq Error -41.383 kHz</p> <p>x dB Bandwidth 15.10 MHz</p>
<p>11G/HCH_Ant1</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth <b>16.540 MHz</b></p> <p>Total Power 15.9 dBm</p> <p>Transmit Freq Error 13.852 kHz</p> <p>x dB Bandwidth 15.69 MHz</p>
<p>11G/HCH_Ant2</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth <b>16.448 MHz</b></p> <p>Total Power 16.0 dBm</p> <p>Transmit Freq Error 4.760 kHz</p> <p>x dB Bandwidth 15.35 MHz</p>



<p>11N20SISO/LCH_Ant1</p>	<p>Center Freq 2.412000000 GHz</p> <p>Ref Offset: 19.5 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40 MHz Sweep 4.267 ms</p> <p><b>Occupied Bandwidth</b> <b>17.581 MHz</b></p> <p>Total Power 14.8 dBm</p> <p>Transmit Freq Error -22.280 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.07 MHz</p> <p>x dB -6.00 dB</p>
<p>11N20SISO/LCH_Ant2</p>	<p>Center Freq 2.412000000 GHz</p> <p>Ref Offset: 19.5 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40 MHz Sweep 4.267 ms</p> <p><b>Occupied Bandwidth</b> <b>17.649 MHz</b></p> <p>Total Power 15.4 dBm</p> <p>Transmit Freq Error -19.443 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.14 MHz</p> <p>x dB -6.00 dB</p>
<p>11N20SISO/MCH_Ant1</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40 MHz Sweep 4.267 ms</p> <p><b>Occupied Bandwidth</b> <b>17.557 MHz</b></p> <p>Total Power 15.0 dBm</p> <p>Transmit Freq Error 4.399 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.04 MHz</p> <p>x dB -6.00 dB</p>



<p>11N20SISO/MCH_Ant2</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40 MHz Sweep 4.267 ms</p> <p>Occupied Bandwidth <b>17.625 MHz</b></p> <p>Total Power 15.2 dBm</p> <p>Transmit Freq Error -46.878 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.14 MHz</p> <p>x dB -6.00 dB</p>
<p>11N20SISO/HCH_Ant1</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40 MHz Sweep 4.267 ms</p> <p>Occupied Bandwidth <b>17.755 MHz</b></p> <p>Total Power 15.8 dBm</p> <p>Transmit Freq Error 660 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 16.43 MHz</p> <p>x dB -6.00 dB</p>
<p>11N20SISO/HCH_Ant2</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40 MHz Sweep 4.267 ms</p> <p>Occupied Bandwidth <b>17.668 MHz</b></p> <p>Total Power 15.6 dBm</p> <p>Transmit Freq Error -7.476 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.14 MHz</p> <p>x dB -6.00 dB</p>

<p>11N40SISO/LCH_Ant1</p>	<p>Center Freq 2.422000000 GHz</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.422 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 80 MHz Sweep 8 ms</p> <p><b>Occupied Bandwidth</b> <b>36.162 MHz</b></p> <p>Total Power 13.8 dBm</p> <p>Transmit Freq Error 50.823 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 35.72 MHz</p> <p>x dB -6.00 dB</p>
<p>11N40SISO/LCH_Ant2</p>	<p>Center Freq 2.422000000 GHz</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.422 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 80 MHz Sweep 8 ms</p> <p><b>Occupied Bandwidth</b> <b>36.129 MHz</b></p> <p>Total Power 14.0 dBm</p> <p>Transmit Freq Error -6.990 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 35.89 MHz</p> <p>x dB -6.00 dB</p>
<p>11N40SISO/MCH_Ant1</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 80 MHz Sweep 8 ms</p> <p><b>Occupied Bandwidth</b> <b>35.803 MHz</b></p> <p>Total Power 13.9 dBm</p> <p>Transmit Freq Error -35.191 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 35.05 MHz</p> <p>x dB -6.00 dB</p>



<p>11N40SISO/MCH_Ant2</p>	<p>Key parameters for 11N40SISO/MCH_Ant2:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.437000000 GHz</li> <li>Occupied Bandwidth: 35.974 MHz</li> <li>Total Power: 13.9 dBm</li> <li>Transmit Freq Error: -38.420 kHz</li> <li>OBW Power: 99.00 %</li> <li>x dB Bandwidth: 35.10 MHz</li> <li>x dB: -6.00 dB</li> </ul>
<p>11N40SISO/HCH_Ant1</p>	<p>Key parameters for 11N40SISO/HCH_Ant1:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.452000000 GHz</li> <li>Occupied Bandwidth: 36.179 MHz</li> <li>Total Power: 14.0 dBm</li> <li>Transmit Freq Error: -55.083 kHz</li> <li>OBW Power: 99.00 %</li> <li>x dB Bandwidth: 35.72 MHz</li> <li>x dB: -6.00 dB</li> </ul>
<p>11N40SISO/HCH_Ant2</p>	<p>Key parameters for 11N40SISO/HCH_Ant2:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.452000000 GHz</li> <li>Occupied Bandwidth: 36.211 MHz</li> <li>Total Power: 13.7 dBm</li> <li>Transmit Freq Error: -46.223 kHz</li> <li>OBW Power: 99.00 %</li> <li>x dB Bandwidth: 35.96 MHz</li> <li>x dB: -6.00 dB</li> </ul>



**99% OBW**

**Test Graph**



<p>11B/MCH_Ant2</p>	<p>Keynote Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 200 kHz</p> <p>Occupied Bandwidth <b>14.085 MHz</b></p> <p>Total Power 21.2 dBm</p> <p>Transmit Freq Error -65.437 kHz</p> <p>x dB Bandwidth 8.652 MHz</p>
<p>11B/HCH_Ant1</p>	<p>Keynote Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 200 kHz</p> <p>Occupied Bandwidth <b>14.310 MHz</b></p> <p>Total Power 21.1 dBm</p> <p>Transmit Freq Error 7.190 kHz</p> <p>x dB Bandwidth 9.141 MHz</p>
<p>11B/HCH_Ant2</p>	<p>Keynote Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 200 kHz</p> <p>Occupied Bandwidth <b>13.853 MHz</b></p> <p>Total Power 20.8 dBm</p> <p>Transmit Freq Error 91.912 kHz</p> <p>x dB Bandwidth 9.087 MHz</p>



<p>11G/LCH_Ant1</p>	<p>Center Freq 2.412000000 GHz</p> <p>Ref Offset: 19.5 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 200 kHz</p> <p>Occupied Bandwidth <b>16.433 MHz</b></p> <p>Total Power 22.8 dBm</p> <p>Transmit Freq Error 12.910 kHz</p> <p>x dB Bandwidth 15.90 MHz</p>
<p>11G/LCH_Ant2</p>	<p>Center Freq 2.412000000 GHz</p> <p>Ref Offset: 19.5 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 200 kHz</p> <p>Occupied Bandwidth <b>16.528 MHz</b></p> <p>Total Power 16.7 dBm</p> <p>Transmit Freq Error -6.458 kHz</p> <p>x dB Bandwidth 16.05 MHz</p>
<p>11G/MCH_Ant1</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 200 kHz</p> <p>Occupied Bandwidth <b>16.405 MHz</b></p> <p>Total Power 22.3 dBm</p> <p>Transmit Freq Error 55.260 kHz</p> <p>x dB Bandwidth 15.06 MHz</p>



<p>11G/MCH_Ant2</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 200 kHz</p> <p>Occupied Bandwidth <b>16.466 MHz</b></p> <p>Total Power 16.4 dBm</p> <p>Transmit Freq Error -38.105 kHz</p> <p>x dB Bandwidth 15.74 MHz</p>
<p>11G/HCH_Ant1</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 200 kHz</p> <p>Occupied Bandwidth <b>16.651 MHz</b></p> <p>Total Power 22.1 dBm</p> <p>Transmit Freq Error -31.435 kHz</p> <p>x dB Bandwidth 16.32 MHz</p>
<p>11G/HCH_Ant2</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 200 kHz</p> <p>Occupied Bandwidth <b>16.579 MHz</b></p> <p>Total Power 16.1 dBm</p> <p>Transmit Freq Error 29.687 kHz</p> <p>x dB Bandwidth 16.05 MHz</p>

<p>11N20SISO/LCH_Ant1</p>	<p>Center Freq 2.412000000 GHz</p> <p>Ref Offset: 19.6 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 200 kHz</p> <p>Occupied Bandwidth <b>17.611 MHz</b></p> <p>Total Power 16.4 dBm</p> <p>Transmit Freq Error 12.668 kHz</p> <p>x dB Bandwidth 16.71 MHz</p>
<p>11N20SISO/LCH_Ant2</p>	<p>Center Freq 2.412000000 GHz</p> <p>Ref Offset: 19.6 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 200 kHz</p> <p>Occupied Bandwidth <b>17.755 MHz</b></p> <p>Total Power 15.4 dBm</p> <p>Transmit Freq Error -17.216 kHz</p> <p>x dB Bandwidth 17.00 MHz</p>
<p>11N20SISO/MCH_Ant1</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 200 kHz</p> <p>Occupied Bandwidth <b>17.655 MHz</b></p> <p>Total Power 16.2 dBm</p> <p>Transmit Freq Error 51.835 kHz</p> <p>x dB Bandwidth 16.35 MHz</p>



<p>11N20SISO/MCH_Ant2</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 200 kHz</p> <p>Occupied Bandwidth <b>17.675 MHz</b></p> <p>Total Power 15.2 dBm</p> <p>Transmit Freq Error -47.514 kHz</p> <p>x dB Bandwidth 16.76 MHz</p>
<p>11N20SISO/HCH_Ant1</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 200 kHz</p> <p>Occupied Bandwidth <b>17.904 MHz</b></p> <p>Total Power 16.2 dBm</p> <p>Transmit Freq Error -33.723 kHz</p> <p>x dB Bandwidth 17.41 MHz</p>
<p>11N20SISO/HCH_Ant2</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 200 kHz</p> <p>Occupied Bandwidth <b>17.774 MHz</b></p> <p>Total Power 15.0 dBm</p> <p>Transmit Freq Error 24.381 kHz</p> <p>x dB Bandwidth 17.15 MHz</p>



<p>11N40SISO/LCH_Ant1</p>	<p>Center Freq 2.422000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.422 GHz #Res BW 390 kHz</p> <p>Occupied Bandwidth <b>36.284 MHz</b></p> <p>Total Power 15.0 dBm</p> <p>Transmit Freq Error 172.52 kHz</p> <p>x dB Bandwidth 36.32 MHz</p>
<p>11N40SISO/LCH_Ant2</p>	<p>Center Freq 2.422000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.422 GHz #Res BW 390 kHz</p> <p>Occupied Bandwidth <b>36.206 MHz</b></p> <p>Total Power 13.9 dBm</p> <p>Transmit Freq Error 71.925 kHz</p> <p>x dB Bandwidth 36.28 MHz</p>
<p>11N40SISO/MCH_Ant1</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 390 kHz</p> <p>Occupied Bandwidth <b>35.966 MHz</b></p> <p>Total Power 14.9 dBm</p> <p>Transmit Freq Error 18.538 kHz</p> <p>x dB Bandwidth 35.48 MHz</p>

<p>11N40SISO/MCH_Ant2</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1.067 ms</p> <p><b>Occupied Bandwidth 36.092 MHz</b></p> <p>Total Power 14.0 dBm</p> <p>Transmit Freq Error 12.865 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 35.54 MHz x dB -6.00 dB</p>
<p>11N40SISO/HCH_Ant1</p>	<p>Center Freq 2.452000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.452 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1.067 ms</p> <p><b>Occupied Bandwidth 36.132 MHz</b></p> <p>Total Power 14.9 dBm</p> <p>Transmit Freq Error -33.251 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 35.81 MHz x dB -6.00 dB</p>
<p>11N40SISO/HCH_Ant2</p>	<p>Center Freq 2.452000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.452 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1.067 ms</p> <p><b>Occupied Bandwidth 36.372 MHz</b></p> <p>Total Power 13.7 dBm</p> <p>Transmit Freq Error -15.510 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 36.40 MHz x dB -6.00 dB</p>

**Appendix C): Band-edge for RF Conducted Emissions  
Result Table**

Mode	Antenna	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	Ant1	LCH	7.095	-50.549	-22.91	PASS
11B	Ant2	LCH	7.396	-50.204	-22.6	PASS
11B	Ant1	HCH	7.064	-49.539	-22.94	PASS
11B	Ant2	HCH	7.656	-49.654	-22.34	PASS
11G	Ant1	LCH	0.524	-50.356	-29.48	PASS
11G	Ant2	LCH	0.210	-50.676	-29.79	PASS
11G	Ant1	HCH	-0.295	-48.615	-30.3	PASS
11G	Ant2	HCH	-0.043	-48.124	-30.04	PASS
11N20SISO	Ant1	LCH	-1.696	-50.712	-31.7	PASS
11N20SISO	Ant2	LCH	-0.751	-49.945	-30.75	PASS
11N20SISO	Ant1	HCH	-0.774	-48.632	-30.77	PASS
11N20SISO	Ant2	HCH	-0.107	-47.656	-30.11	PASS
11N40SISO	Ant1	LCH	-7.176	-49.983	-37.18	PASS
11N40SISO	Ant2	LCH	-6.739	-49.966	-36.74	PASS
11N40SISO	Ant1	HCH	-7.986	-47.177	-37.99	PASS
11N40SISO	Ant2	HCH	-6.960	-45.057	-36.96	PASS

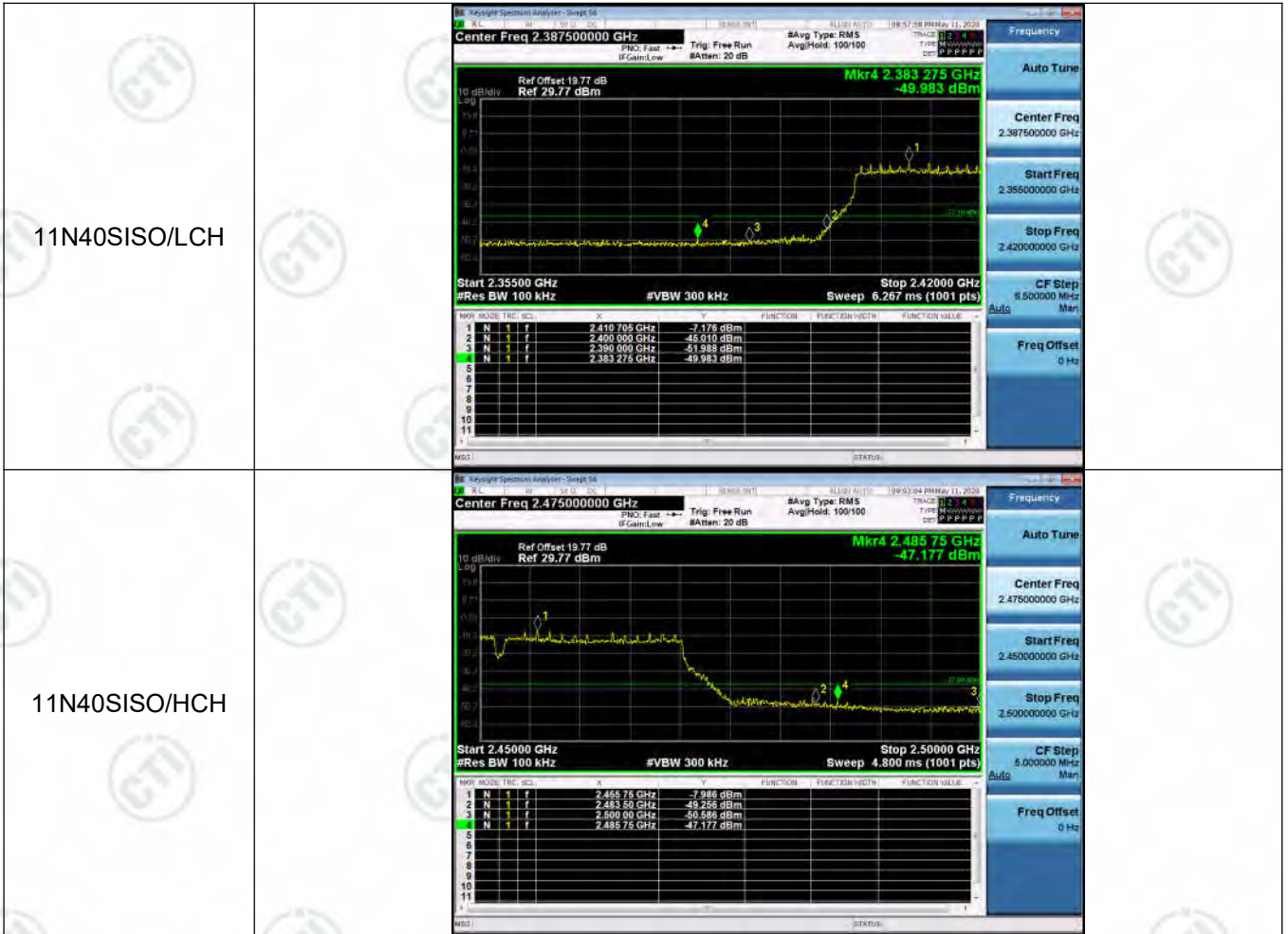


**Test Graph**



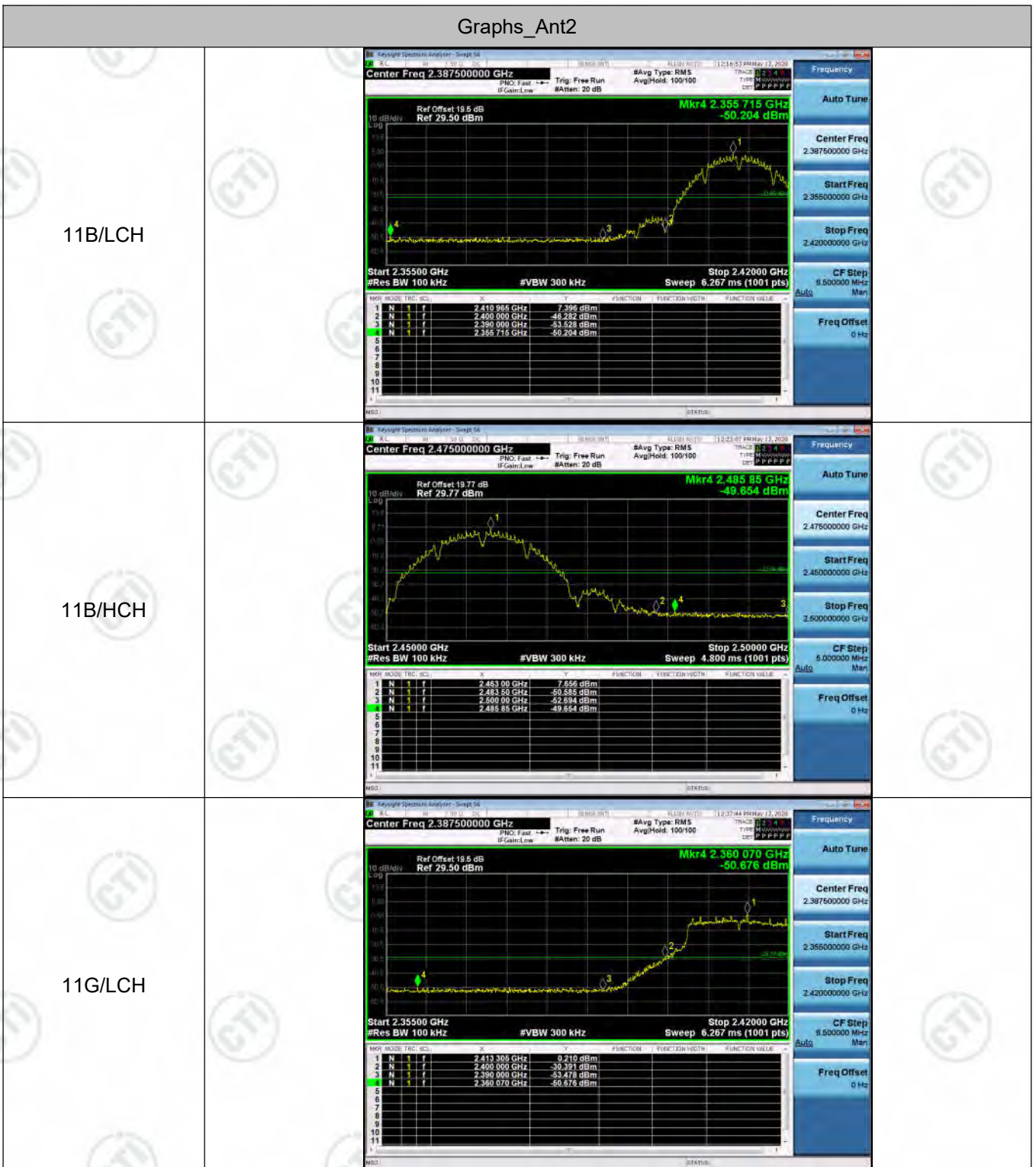
<p>11G/HCH</p>	<p>Center Freq 2.475000000 GHz</p> <p>Ref Offset 19.77 dB Ref 29.77 dBm</p> <p>Mkr4 2.486 60 GHz -48.815 dBm</p> <p>Start 2.45000 GHz #Res BW 100 kHz #VBW 300 kHz Stop 2.50000 GHz Sweep 4.800 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</th> <th>SCN</th> <th>F</th> <th>A</th> <th>FUNCTION</th> <th>FUNCTION MATH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>f</td> <td>f</td> <td>2.463 25 GHz</td> <td>-0.295 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>f</td> <td>f</td> <td>2.483 50 GHz</td> <td>-49.859 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>f</td> <td>f</td> <td>2.500 00 GHz</td> <td>-52.195 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>f</td> <td>f</td> <td>2.486 60 GHz</td> <td>-48.815 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRIG	SCN	F	A	FUNCTION	FUNCTION MATH	FUNCTION VALUE	1	N	f	f	2.463 25 GHz	-0.295 dBm				2	N	f	f	2.483 50 GHz	-49.859 dBm				3	N	f	f	2.500 00 GHz	-52.195 dBm				4	N	f	f	2.486 60 GHz	-48.815 dBm			
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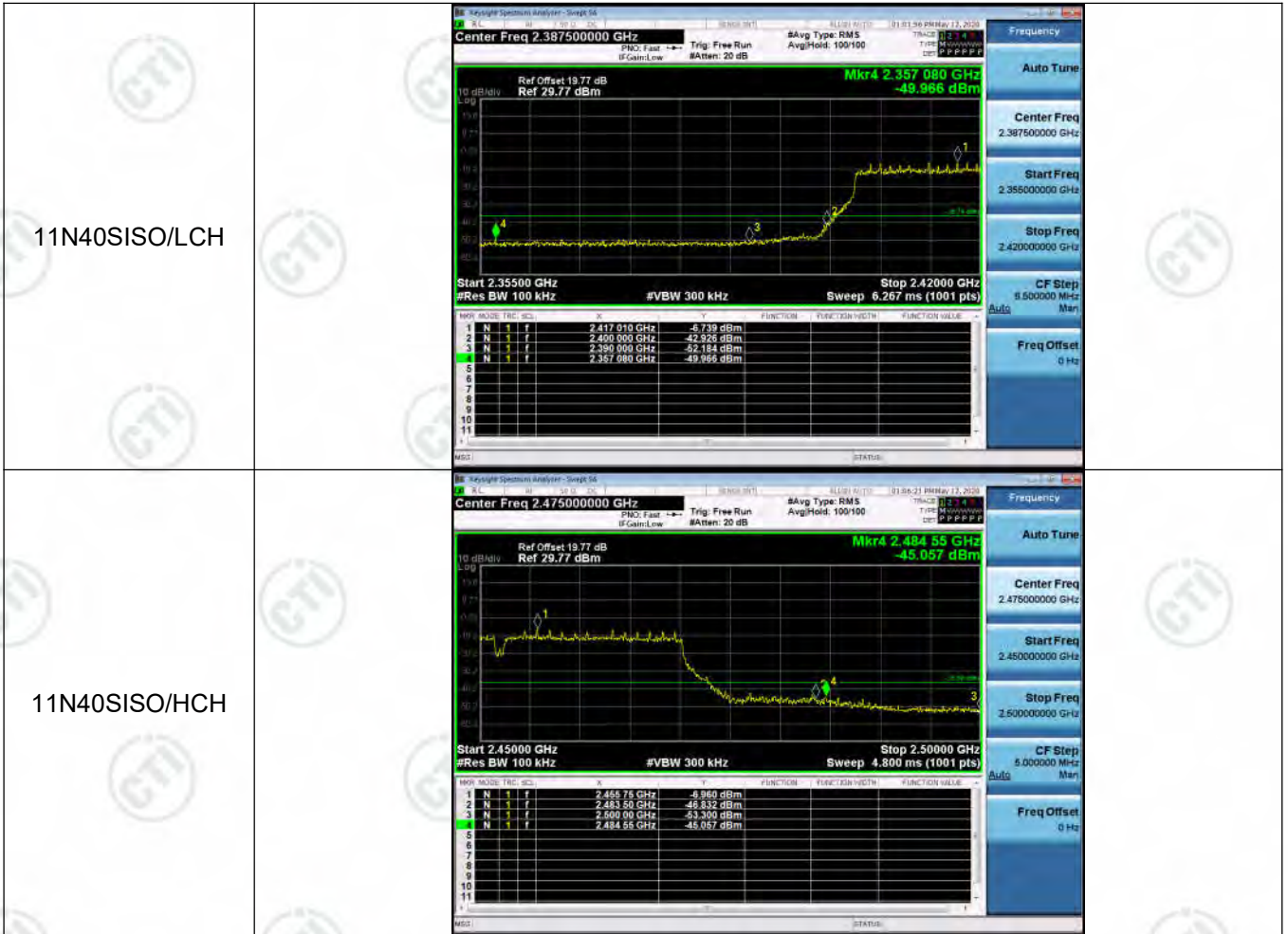


Graphs\_Ant2



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3	N	f	f	2.50000	GHz			-52.582 dBm																																							
4	N	f	f	2.48510	GHz			-48.124 dBm																																							
<p>11N20SISO/LCH</p>	<table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</th> <th>SCN</th> <th>F</th> <th>M</th> <th>FUNCTION</th> <th>FUNCTION MATH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>f</td> <td>f</td> <td>2.413240</td> <td>GHz</td> <td></td> <td></td> <td>-0.761 dBm</td> </tr> <tr> <td>2</td> <td>N</td> <td>f</td> <td>f</td> <td>2.400000</td> <td>GHz</td> <td></td> <td></td> <td>-30.715 dBm</td> </tr> <tr> <td>3</td> <td>N</td> <td>f</td> <td>f</td> <td>2.390000</td> <td>GHz</td> <td></td> <td></td> <td>-51.961 dBm</td> </tr> <tr> <td>4</td> <td>N</td> <td>f</td> <td>f</td> <td>2.370860</td> <td>GHz</td> <td></td> <td></td> <td>-49.945 dBm</td> </tr> </tbody> </table>	MKR	MODE	TRIG	SCN	F	M	FUNCTION	FUNCTION MATH	FUNCTION VALUE	1	N	f	f	2.413240	GHz			-0.761 dBm	2	N	f	f	2.400000	GHz			-30.715 dBm	3	N	f	f	2.390000	GHz			-51.961 dBm	4	N	f	f	2.370860	GHz			-49.945 dBm	<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.387500000 GHz</p> <p>Start Freq 2.355000000 GHz</p> <p>Stop Freq 2.420000000 GHz</p> <p>CF Step 5.000000 MHz</p> <p>Freq Offset 0 Hz</p>
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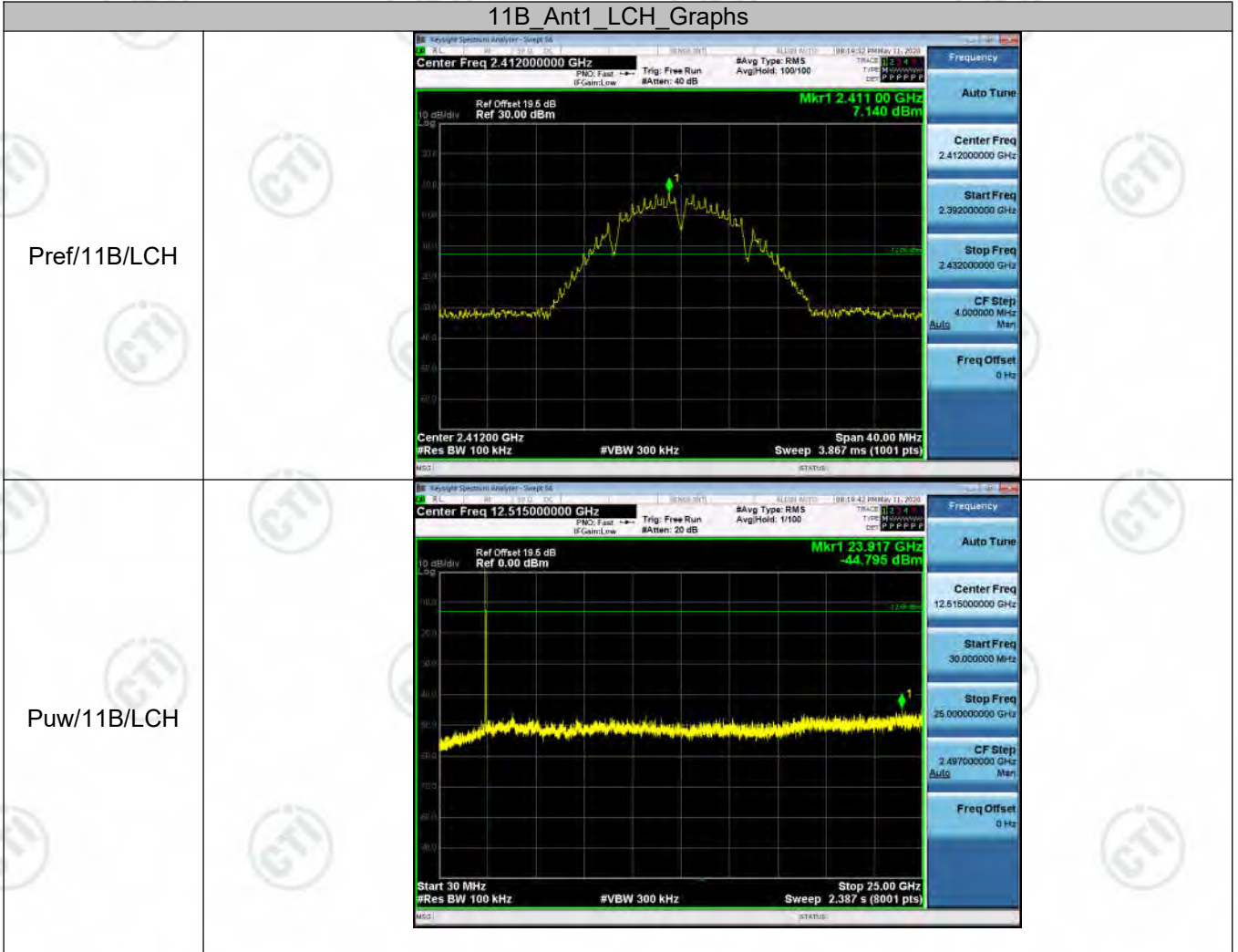




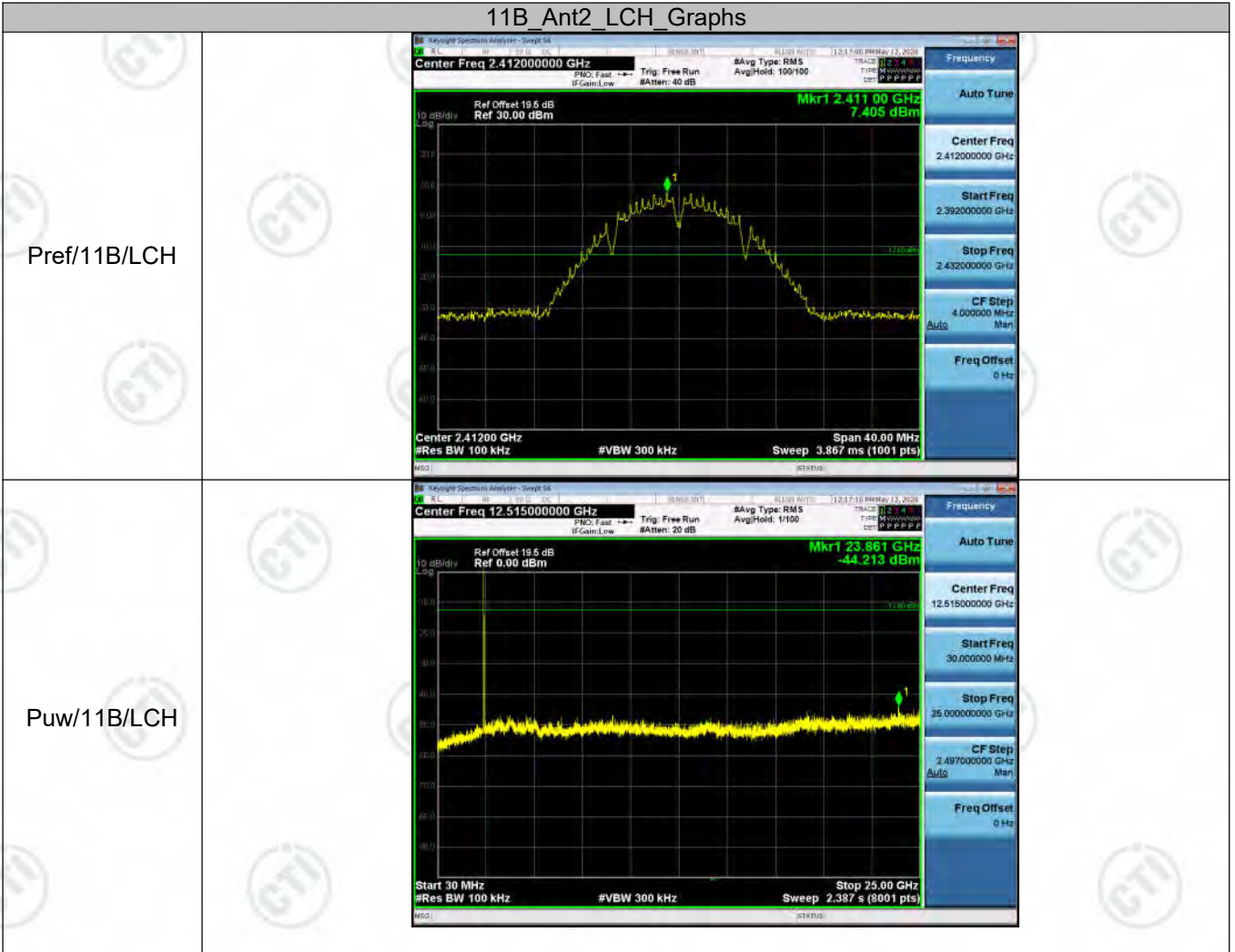
**Appendix D): RF Conducted Spurious Emissions  
Result Table**

Mode	Antenna	Channel	Pref [dBm]	Puw[dBm]	Verdict
11B	Ant1	LCH	7.14	<Limit	PASS
11B	Ant2	LCH	7.405	<Limit	PASS
11B	Ant1	MCH	7.578	<Limit	PASS
11B	Ant2	MCH	7.216	<Limit	PASS
11B	Ant1	HCH	7.144	<Limit	PASS
11B	Ant2	HCH	7.727	<Limit	PASS
11G	Ant1	LCH	0.608	<Limit	PASS
11G	Ant2	LCH	0.653	<Limit	PASS
11G	Ant1	MCH	0.854	<Limit	PASS
11G	Ant2	MCH	0.178	<Limit	PASS
11G	Ant1	HCH	-0.373	<Limit	PASS
11G	Ant2	HCH	0.142	<Limit	PASS
11N20SISO	Ant1	LCH	-1.457	<Limit	PASS
11N20SISO	Ant2	LCH	-0.503	<Limit	PASS
11N20SISO	Ant1	MCH	-0.08	<Limit	PASS
11N20SISO	Ant2	MCH	-0.981	<Limit	PASS
11N20SISO	Ant1	HCH	-1.242	<Limit	PASS
11N20SISO	Ant2	HCH	-0.503	<Limit	PASS
11N40SISO	Ant1	LCH	-5.574	<Limit	PASS
11N40SISO	Ant2	LCH	-6.177	<Limit	PASS
11N40SISO	Ant1	MCH	-5.015	<Limit	PASS
11N40SISO	Ant2	MCH	-5.08	<Limit	PASS
11N40SISO	Ant1	HCH	-5.486	<Limit	PASS
11N40SISO	Ant2	HCH	-6.777	<Limit	PASS

**Test Graph**



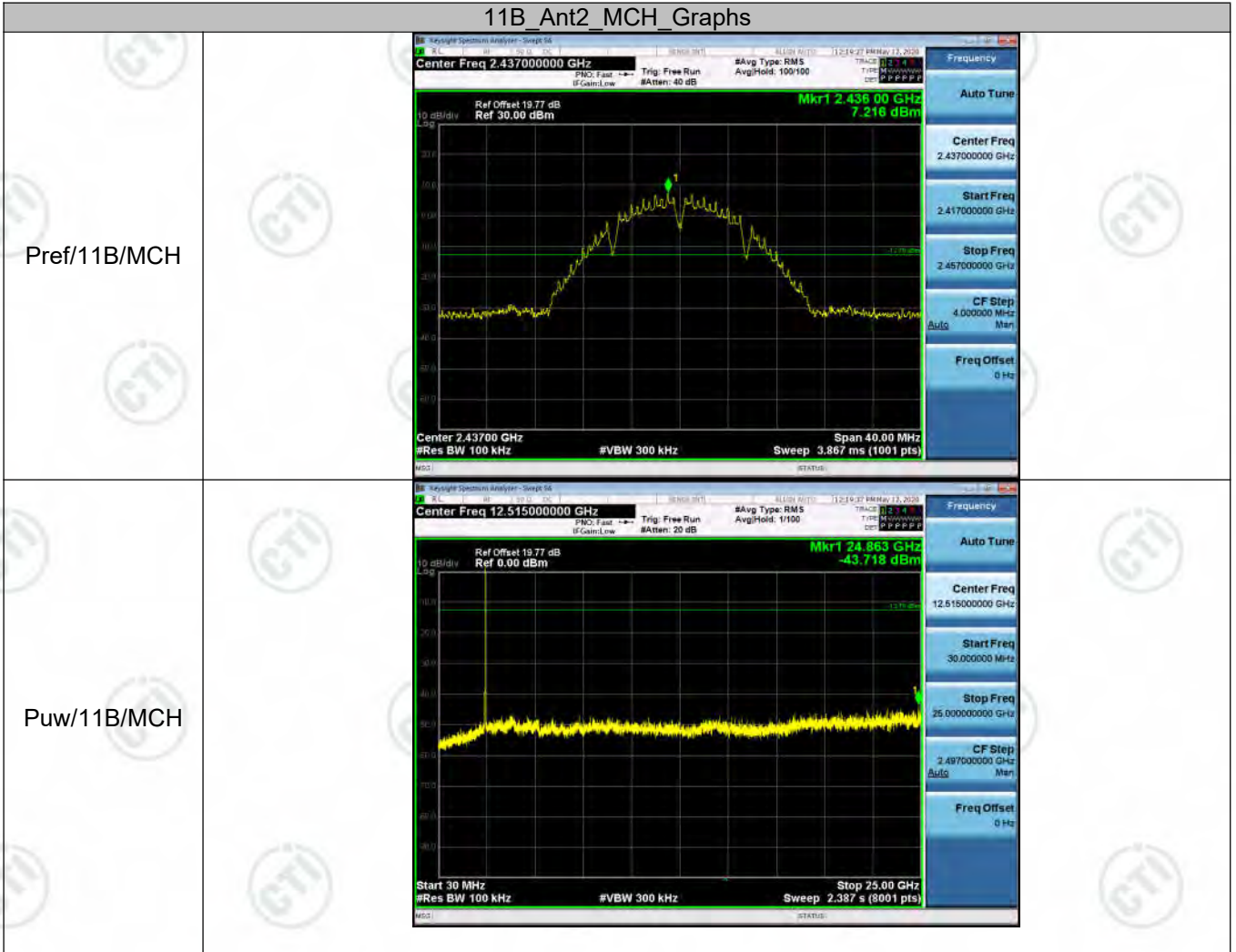
11B\_Ant2\_LCH\_Graphs

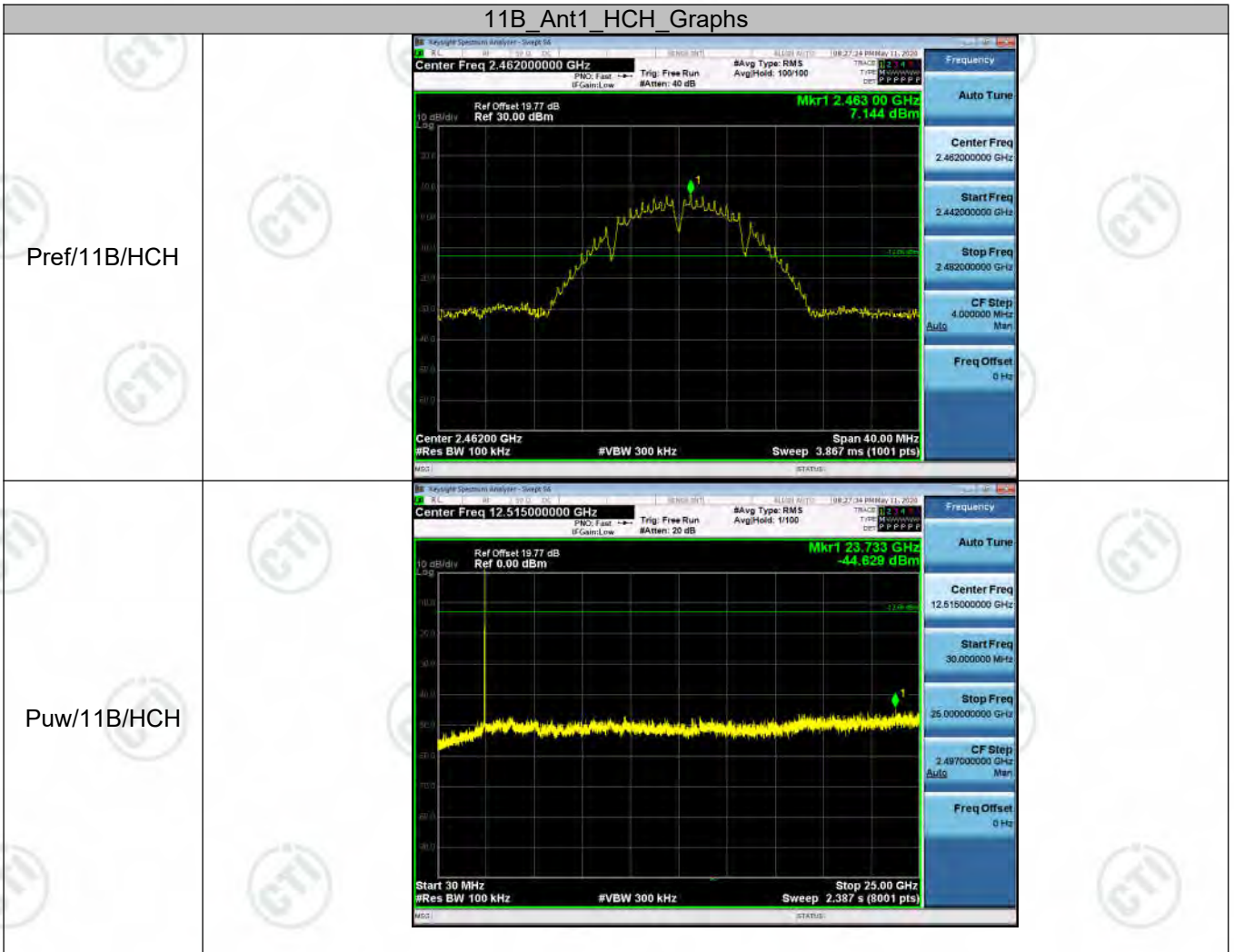






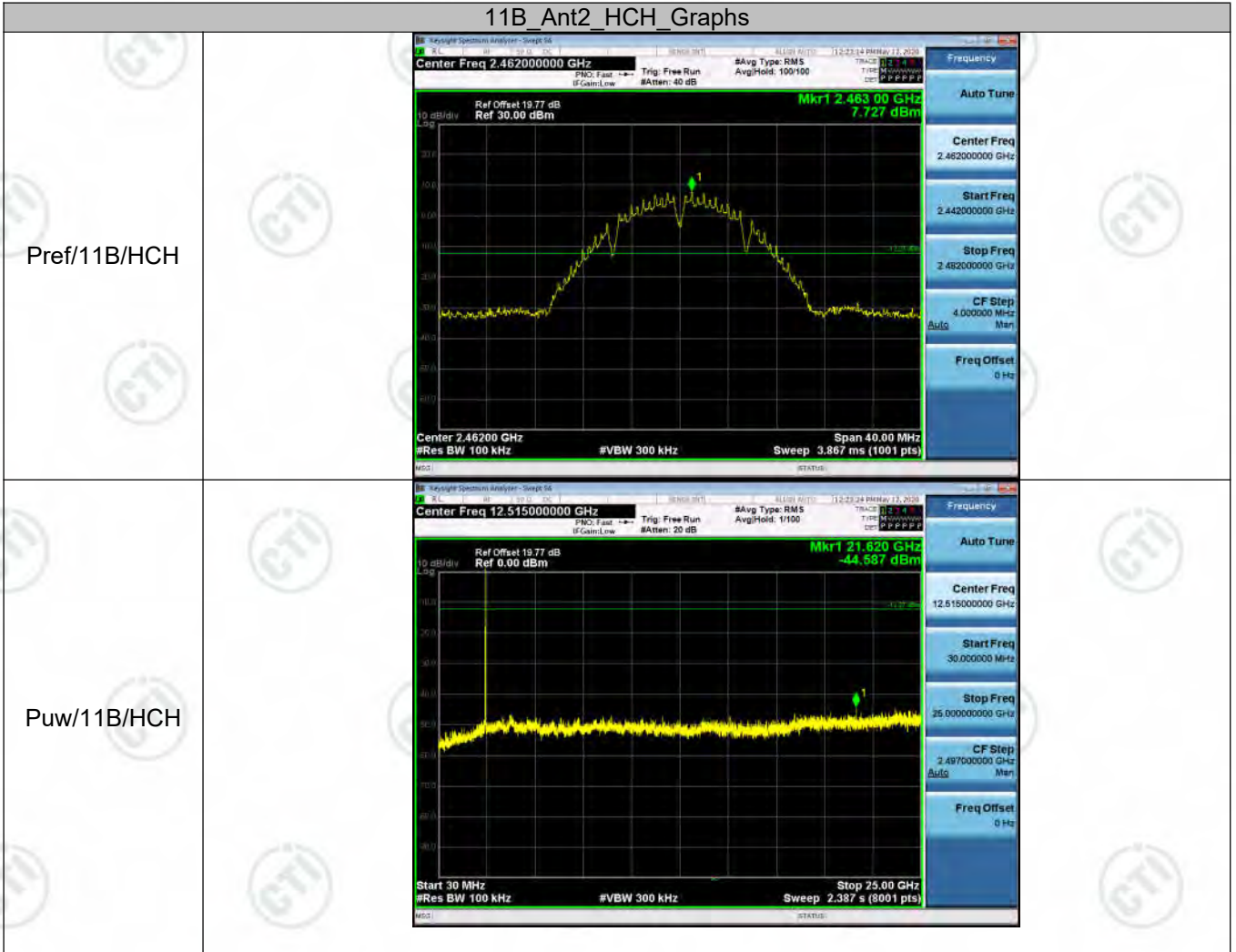
11B\_Ant2\_MCH\_Graphs



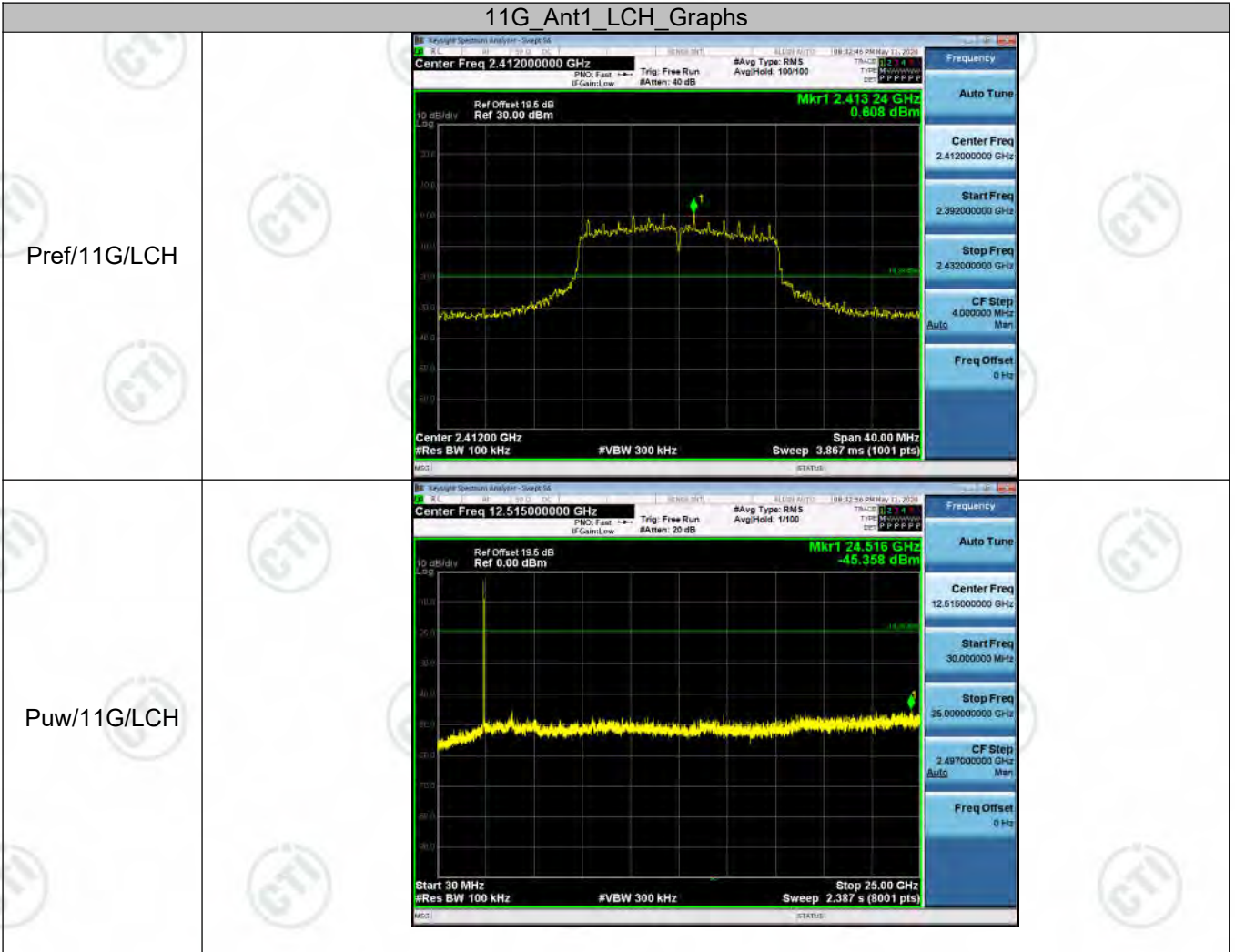


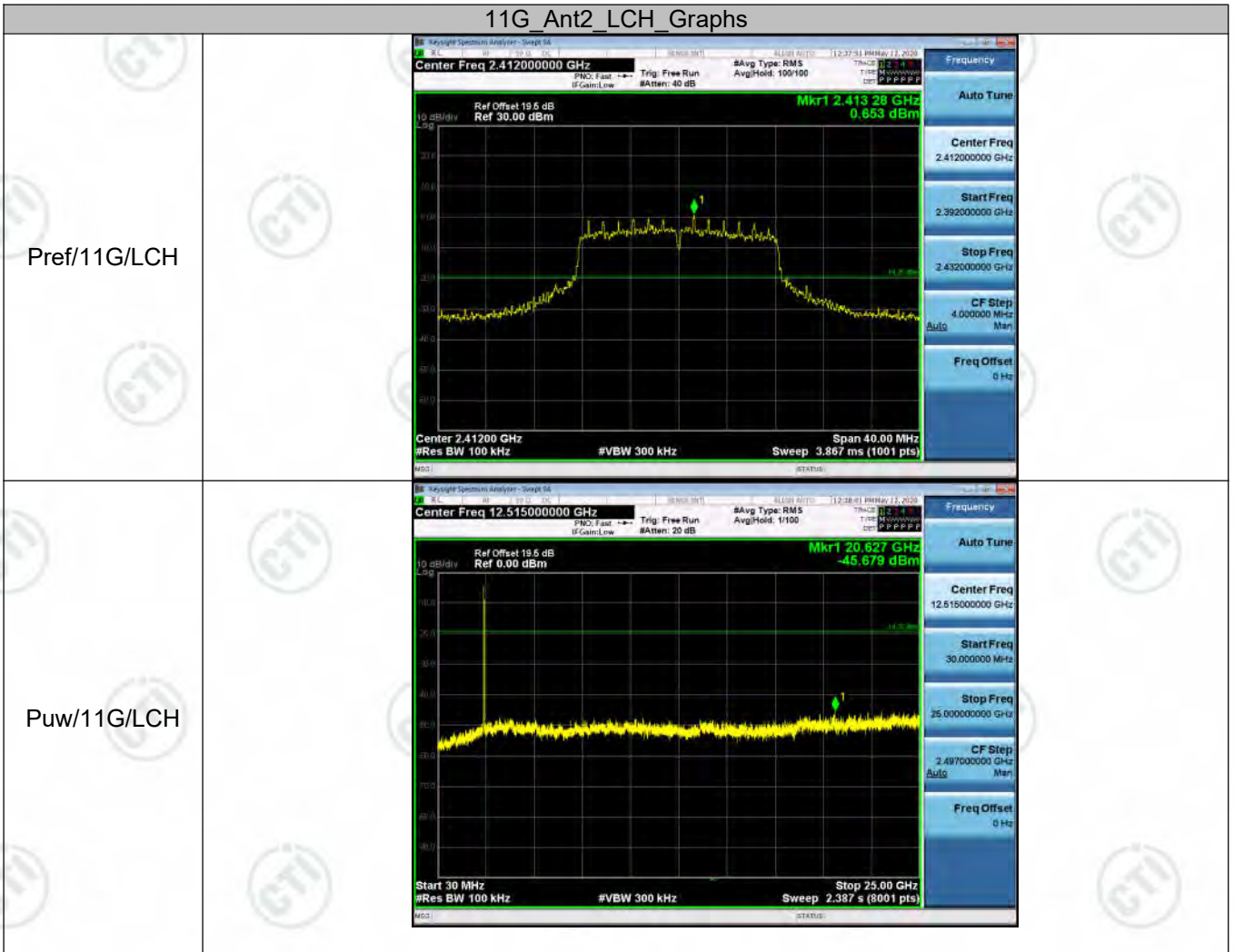


11B\_Ant2\_HCH\_Graphs



11G\_Ant1\_LCH\_Graphs







11G\_Ant1\_MCH\_Graphs

